

TOSHIBA

FILE NO. 050-200121

SERVICE MANUAL

PLASMA DISPLAY MONITOR

42WP16A, 42WP16H
42WP16C, 42WP16E
42WP16R, 42WP16B

WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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1 Safety Precautions

1.1. General Guidelines

1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

1.1.1. Leakage Current Cold Check

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between $1M\Omega$ and $5.2M\Omega$.

When the exposed metal does not have a return path to the chassis, the reading must be ∞ .

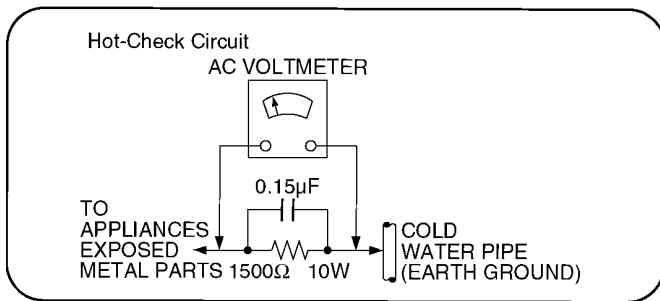


Figure 1

1.1.2. Leakage Current Hot Check (See Figure 1.)

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a $1.5k\Omega$, 10 watts resistor, in parallel with a $0.15\mu F$ capacitors, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1.
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current must not exceed $1/2$ milliamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

2 Prevention of Electro Static Discharge (ESD) to Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by electro static discharge (ESD).

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static (ESD protected)" can generate electrical charge sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

Caution

Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient to damage an ES device).

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by  in the schematic diagrams, Exploded Views and replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

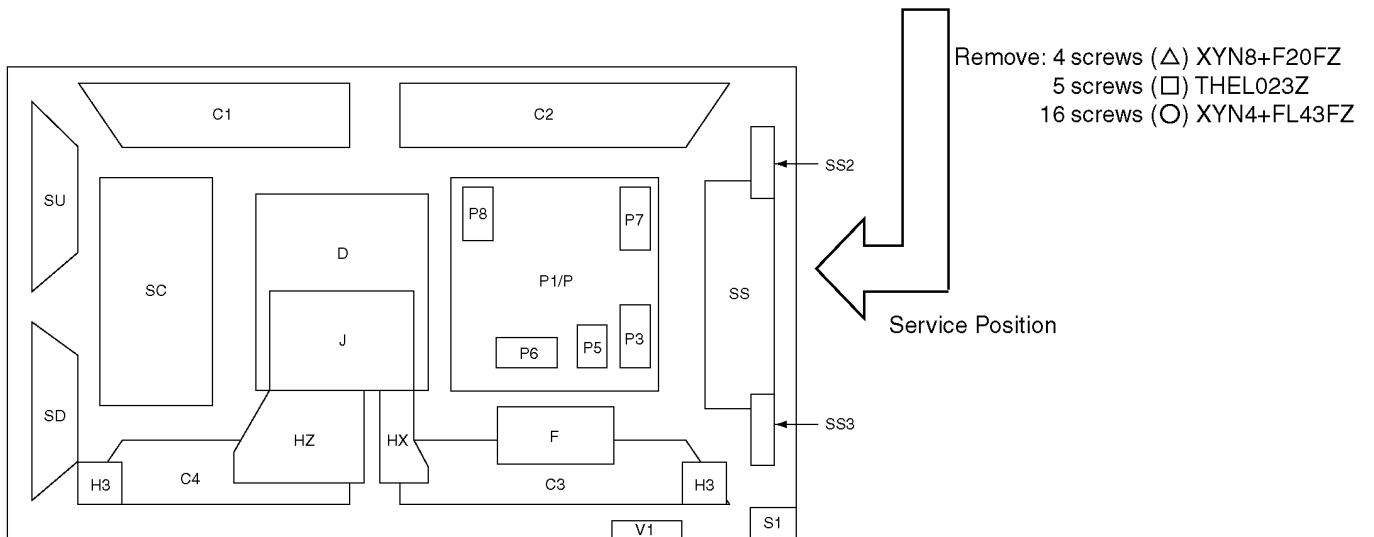
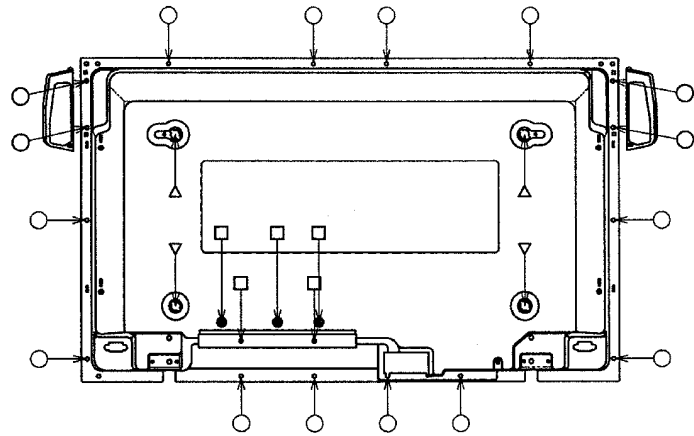
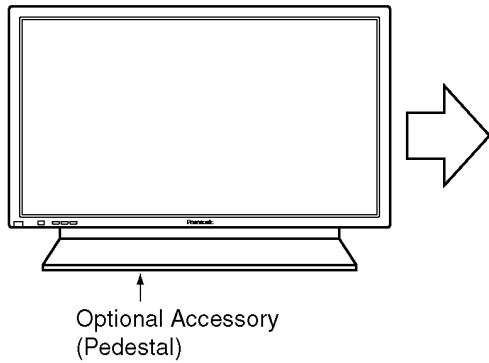
3 PCB Structure sheet of GP4D chassis

Board Name	Reference No.		Function
	Except 42WP16C	42WP16C	
D	TZTNP02KNSR	TZTNP01KNSC	Digital process & control
J	TXN/J10JAS		Separator / Audio Out
SS	TNPA2262		Scan out
SC	TNPA2261		Scan out
SU	TNPA2259		Sustain connection (Upper)
SD	TNPA2260		Sustain connection (Lower)
C1	TNPA2253		Data Drive (Upper Left)
C2	TNPA2254		Data Drive (Upper Right)
C3	TNPA2255		Data Drive (Lower Right)
C4	TNPA2256		Data Drive (Lower Left)
H3	TNPA2249		Speaker terminal
S1	TNPA2283		Power switch
SS2	TNPA2263		Sustain connection (Upper)
SS3	TNPA2264		Sustain connection (Lower)
V1	TNPA2282		Front SW. & Remote receiver
F	TXN/F1JASE		Line filter
P1	TXN/P11JASE-N		Power supply
P3	TNPA1777		Drive voltage oscillator
P5	TNPA1778		Primary oscillator
P6	TNPA1779		PFC oscillator
P7	TNPA1780		Drive voltage protection
P8	TNPA1781		Process voltage protection
HX	TZTNP01KNSR		PC type Input terminal
HZ	TXNHZ10JJS		RCA type Input terminal

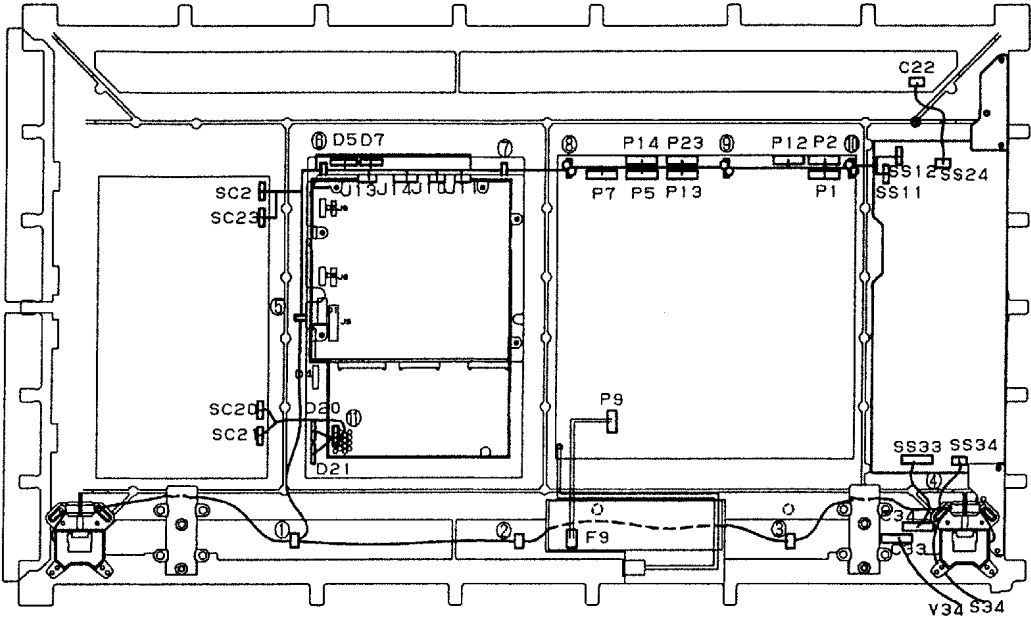
4 Service Hint

Remove the Back Cover

Stand the Unit used for Optional Accessory



5 Location of Lead Wiring



CON:NO	CON:NO	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪			
SC20	— D20														
SC21	— D21														
P7	— D7														
P5	— D5														
SS12	— P12														
SS11	— P1														
SC2	— P2														
SC23	— P23														
J14	— P14														
J13	— P13														
J10	— H37 (SC)														
J11	— H37 (SS)														
S34	— SS34														
	—														
	—														
	—														
	—														

⊙ Wind up second times.

Connector Connection
P9, AC Inlet, J10, J11, C22, C33, C34, SS34,
D5, D7, P5, P7, P2, D20, D21, P23, P12

6 Adjustment Procedure

6.1. +B Set-up

6.1.1. Item / Preparation

1. Input a Grey scale signal.
2. Set the picture controls: -
Picture mode: Normal
White balance: Normal

6.1.2. Adjustments

Adjust and confirm indicated test point for the specified voltage.

Adjust

Test point	Voltage	Volume	Name
P4 pin 1 (Hot)	400V $\pm$ 1V	R426 (P1)	PFC
P1 pin 3	175V $\pm$ 1V	R625 (P3)	Vsus
P2 pin 3	160V $\pm$ 1V	R498 (P1)	Vbk
P12 pin 1	67V $\pm$ 0.5V	R519 (P1)	Vda

Confirm

Test point	Voltage	Volume	Name
P23 pin 2	15V $\pm$ 0.5V		+15V
P5 pin 1	13.2 $\pm$ 0.5V		+13V
P13 pin 1	13.5V $\pm$ 0.5V		Audio 15V
P13 pin 3	-13.5V $\pm$ 0.5V		Audio -15V
P5 pin 5	5.1V $\pm$ 0.3V		5V
P7 pin4	5.0 $\pm$ 0.3V		STB5V (1)
P14 pin 8	5.0V $\pm$ 0.3V		STB5V (2)
P10 pin 1	17.0V $\pm$ 0.5V		FAN +B
P10 pin 4	5.1V $\pm$ 0.3V		FAN 5V

6.2. Driver Set-up

6.2.1. Item / Preparation

1. Input an APL 100 % white signal.
2. Set the picture controls: -
Picture mode: Normal
White balance: Cool
Aspect: 16:9

6.2.2. Adjustments

Adjust driver section voltages referring the panel data on the panel data label.

Test point	Voltage	Volume	Name
TPVSUS (SS-BOARD)	Vsus $\pm$ 1V*	R625 (P3)	Vsus
TPVBK (SC-BOARD)	Vbk $\pm$ 1V*	R498 (P1)	Vbk
TPVE (SS-BOARD)	Ve $\pm$ 1V*	R6774 (SS)	Ve
TPVSET (SC-BOARD)	218 V $\pm$ 6V	---	Vset
TPVAD (SC-BOARD)	Vad $\pm$ 1V*	R6477 (SC)	Vad
TPVDA (SC-BOARD)	67V $\pm$ 1V	R519 (P1)	Vda

*See the Panel label.

Panel Label information

[M] MC106W36P4	← Panel Parts number
NO. *****	← Panel serial number
Vbk : *** V Vsus : *** V	← Adjustment voltage
Ve : *** V Vad : *** V	
*** MADE IN JAPAN	
Panel Production date	

Panel Production date

For Example

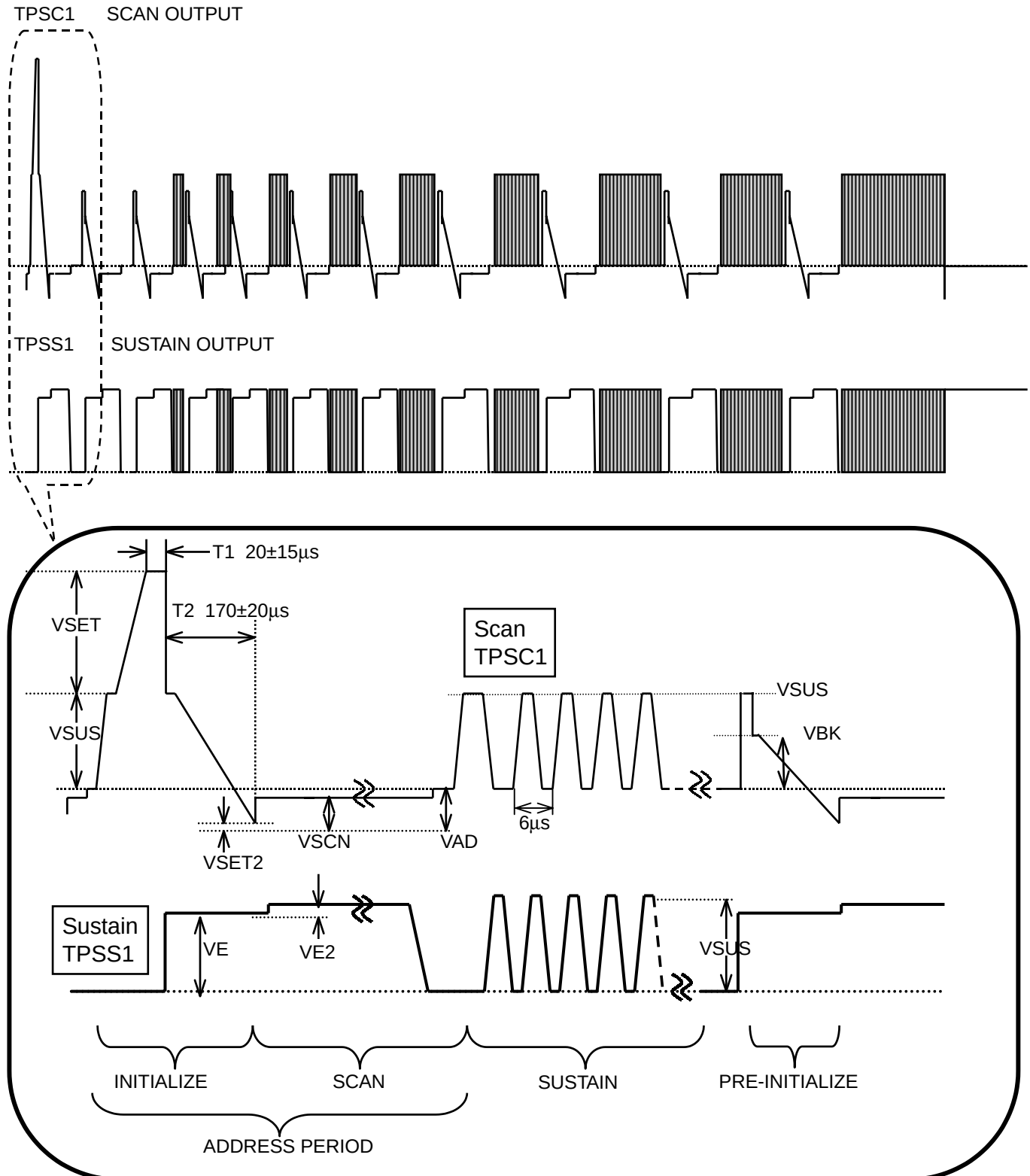
1 .	7 .	1	--> Beg. of July, 2001
Year	Month		
		1	Beginning of Month (1-10)
		2	Middle of Month (11-20)
		3	End of Month (21-31)
	1	January	
	2	February	
	3	March	
	:	:	
	9	September	
	O	October	
	N	November	
	D	December	
9	1999		
0	2000		
1	2001		
:			

6.3. Initialization Pulse Adjust

1. Input a Cross hatch signal.
2. Set the picture controls: -
Picture mode: Normal
White balance: Cool

Adjust the indicated test point for the specified wave form.

	Test point	Volume	Level
T1	TPSC1 (SC)	R6523 (SC)	$20 \pm 15\mu$ Sec
T2	TPSC1 (SC)	R6557 (SC)	$170 \pm 20\mu$ Sec



6.4. P.C.B. (Printed Circuit Board) exchange

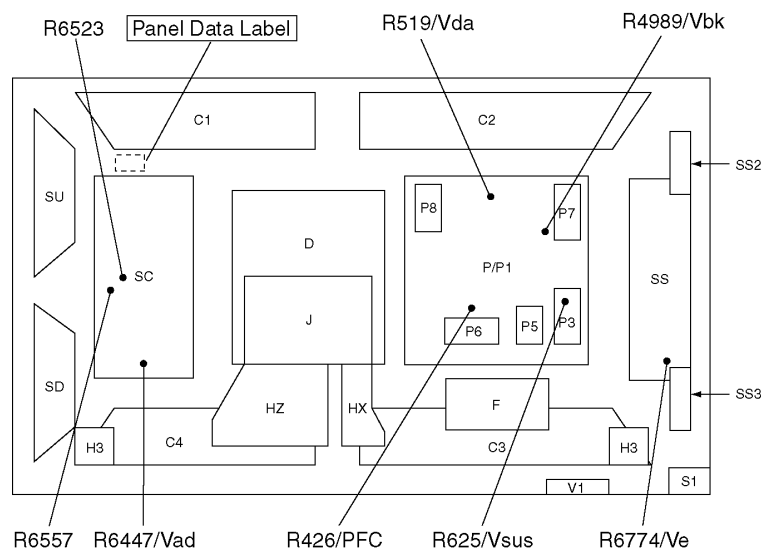
6.4.1. Caution

1. To remove P.C.B. , wait 1 minute after power was off for discharge from electrolysis capacitors.

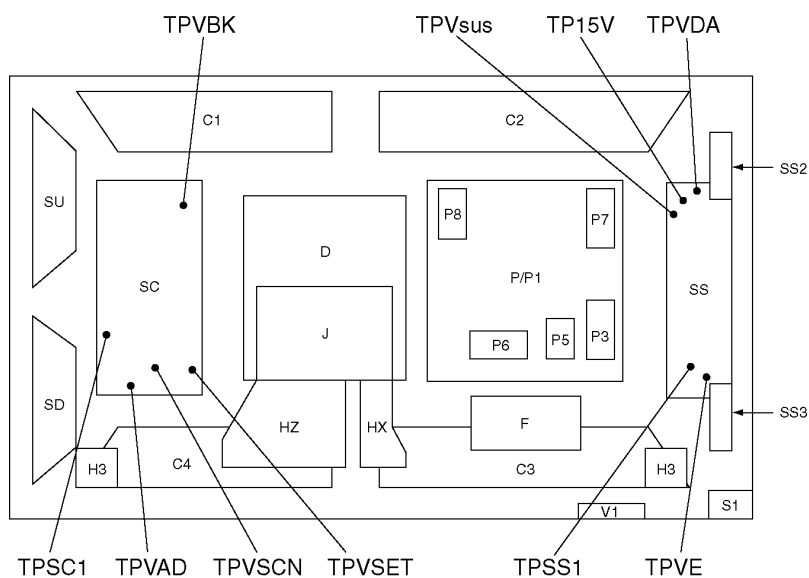
6.4.2. Quick adjustment after P.C.B. exchange

P.C.B.	Item	Volume	Test point	Level
P board	PFC	R426 (3)	P4 connector pin 1	400V $\pm$ 1 V
	Vsus	R625 (P3)	TPVsus (SS)	175V $\pm$ 1 V
	Vbk	R498 (P1)	TPVBK (SC)	160V $\pm$ 5 V
	Vda	R519 (P1)	TPVDA (SS)	67V $\pm$ 1 V
SC board	Vad	R6477	TPVAD (SC)	-90 $\pm$ 1 V
SS board	Ve	R6774	TPVE (SS)	150 $\pm$ 1 V
D board	White balance, Pedestal and Sub brightness for NTSC, PAL, HD, PC and 625I signals.			

6.5. Adjustment Volume Location



6.6. Test Point Location



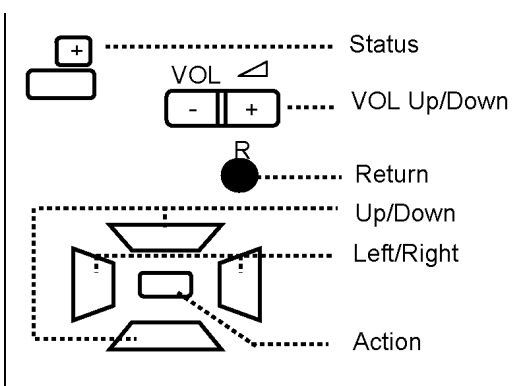
7 Serviceman mode

7.1. CAT (computer Aided Test) mode

CAT mode menu

CAT Panel sys8.1		Mode	Function	Access button
IIC Mode	←.....	IIC	Service Alignment	Action
CD Mode	←.....	CD(Complete Diagnostics)	Software version information EEPROM edit	Mute more than 5 seconds
SD Mode	←.....	SD(Status Display)	MTBF parameter	Action
ID Mode	←.....	ID	Not use	----

Remote control



How to access the CAT mode.

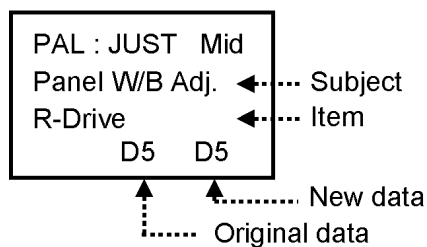
Press and the hold the Volume down / - buton on the front panel of the unit and press the status button on the remote control 3 times quickly within 1 second, this will place the unit into the CAT menu.

To exit the **CAT mode**, access the **ID mode** and switch off the main power.

7.1.1. IIC mode

Select the IIC mode by **Up/Down button** on the remote control at the front page of CAT mode then press the **Action button** on the remote control.

OSD



How to use the IIC mode.

1. Select the alignment **Subject** by **Up/Down buttons** on the remote control.
2. Select the alignment **Item** by **Left/Right buttons** on the remote control.
3. Adjust **optimum setting** by **Volume Up/Down buttons** on the remote control.
4. The **data is memorized** when press the **R button** on the remote control or change the alignment Subject (or Items).

Subject and item are mentioned on page 14.

To exit the IIC mode, press the **R button** on the remote control.

7.1.2. CD mode

Select the CD mode by **Up/Down button** on the remote control at the front page of CAT mode then press the **Mute button** on the remote control more than 5 sec.

OSD

The diagram shows a table with two columns of data. The first column contains labels, and the second column contains values. A dashed box highlights the 'OK' value in the first row and the '69 25' value in the third row. A dashed arrow points from the 'Factory use' label to the 'OK' value. A dashed arrow points from the 'New data' label to the '0' value in the fourth row. A dashed arrow points from the 'Original data' label to the '0' value in the fifth row.

MiCom Software version.	1.03	OK	Factory use
Memory data version D	0.05	94 2C	
Memory data version H	0.00	69 25	
Memory data change Address	A0	0	
Data	0	0	New data
			Original data

Micom software version (IC9705 / TVRJ562), this version can be upgrade by replacing with new version IC.

Memory data version D (IC9706 /TVRJ601) in the D board

Version	Model	Type	Destination
10.**	42WP16R/H/A/E/B	Consumer	Euro, H.K, U.K, Australia
11.**	42WP16C	Consumer	China

Memory data change

Address A0 0 ◀ Change by Up/Down buttons on the remote control.

↑
Change by Left/Right buttons on the remote control.

Data 0 0 ◀ Change by VOL Up/Down buttons on the remote control.

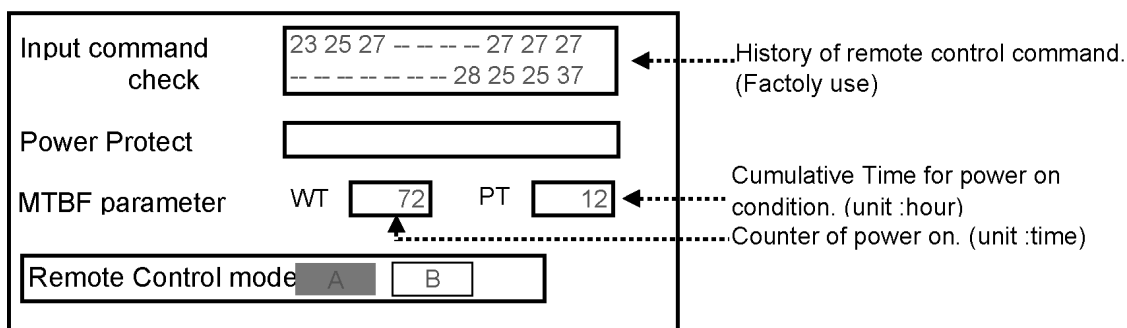
The data is memorized when switch off the main power.

To exit the CD mode, press the **R button** on the remote control.

7.1.3. SD mode

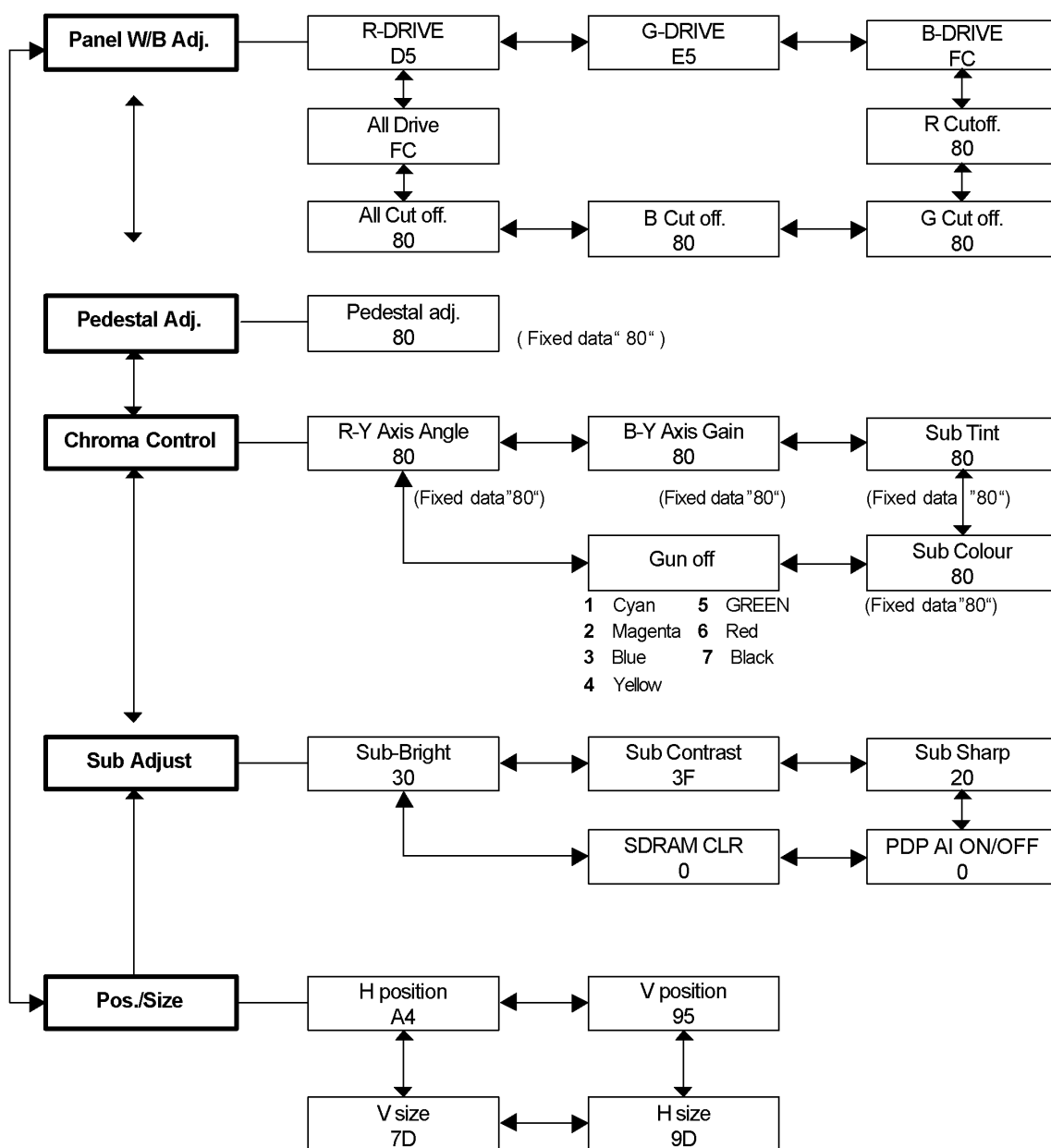
Select the SD mode by Up/Down button on the remote control at the front page of CAT mode then press the Action button on the remote control.

OSD



To exit the SD mode, press the **R button** on the remote control.

7.2. IIC mode structure (following items value is sample data.)

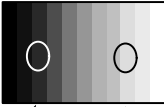


8 Alignment

8.1. NTSC panel white balance

	INPUT	Equipment	Setting	Alignment menu	Procedure												
1	NTSC Gray Scale Pattern 	Color Analyzer	Picture: Normal White balance: Cool Aspect: 16:9	Sub Adjust Sub Bright PANEL W/B G cut off PANEL W/B B cut off R cut off Sub Adjust Sub Bright PANEL W/B G Drive PANEL W/B B Drive R Drive PANEL W/B R,G,B Drive R,G,B Drive PANEL W/B R,G,B cut off	1) Find the nearest area to brightness of 10 cd/m ² as Low light by color sensor. 2) Adjust Sub bright to set Low light level to 10 cd/m ² exactly. 3) Set G cut off to " 80 ". 4) Adjust B and R cut off to set color temperature as shown Fig.-01. 5) If Sub Bright is changed re-adjust it to set Low light to 10 cd/m ² . 6)Find 75% of white area by color sensor. 7) Set G Drive to " D8 ". 8) Adjust B and R Drive to set color temperature as shown Fig.-01. 9) Repeat item 4) to 7) to set both Low light and high light. 10) Increase same steps of R, G and B Drive to set largest level of 3 color drive to "FC". 11) Re-adjust Low light level again. <table border="1" data-bbox="927 1049 1263 1164"><tr><td>Color Temp.</td><td>x</td><td>y</td></tr><tr><td>Cool(Hi)</td><td>0.272</td><td>0.290</td></tr><tr><td>Normal(Mid)</td><td>0.288</td><td>0.296</td></tr><tr><td>Warm(Low)</td><td>0.313</td><td>0.329</td></tr></table> Fig. -01	Color Temp.	x	y	Cool(Hi)	0.272	0.290	Normal(Mid)	0.288	0.296	Warm(Low)	0.313	0.329
Color Temp.	x	y															
Cool(Hi)	0.272	0.290															
Normal(Mid)	0.288	0.296															
Warm(Low)	0.313	0.329															
2			Picture: Normal White balance: Normal Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Normal". 2) Repeat procedure 3) to 11) of Cool mode.												
3			Picture: Normal White balance: Warm Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Warm". 2) Repeat procedure 3) to 11) of Cool mode.												
4			Picture: Normal White balance: Cool Aspect: 16:9	Picture Menu Sub Adjust Sub Bright	1) Change color templature to "Cool". 2)Re-set Sub bright to "30"												

8.2. PAL/SECAM panel white balance

	INPUT	Equipment	Setting	Alignment menu	Procedure												
1	PAL Gray Scale Pattern 	Color Analyzer	Picture: Normal White balance: Cool Aspect: 16:9	Sub Adjust Sub Bright PANEL W/B G cut off PANEL W/B B cut off R cut off Sub Adjust Sub Bright PANEL W/B G Drive PANEL W/B B Drive R Drive PANEL W/B R,G,B Drive R,G,B Drive PANEL W/B R,G,B cut off	1) Find the nearest area to brightness of 10 cd/m ₂ as Low light by color sensor. 2) Adjust Sub bright to set Low light level to 10 cd/m ₂ exactly. 3) Set G cut off to " 80 ". 4) Adjust B and R cut off to set color temperature as shown Fig.-02. 5) If Sub Bright is changed re-adjust it to set Low light to 10 cd/m ₂ . 6)Find 75% of white area by color sensor. 7) Set G Drive to " D8 ". 8) Adjust B and R Drive to set color temperature as shown Fig.-02. 9) Repeat procedure 4) to 7) to set both Low light and high light. 10) Increase same steps of R, G and B Drive to set largest level of 3 color drive to "FC". 11) Re-adjust Low light level again. <table><tr><td>Color Temp.</td><td>x</td><td>y</td></tr><tr><td>Cool(Hi)</td><td>0.272</td><td>0.290</td></tr><tr><td>Normal(Mid)</td><td>0.288</td><td>0.296</td></tr><tr><td>Warm(Low)</td><td>0.313</td><td>0.329</td></tr></table> Fig. -02	Color Temp.	x	y	Cool(Hi)	0.272	0.290	Normal(Mid)	0.288	0.296	Warm(Low)	0.313	0.329
Color Temp.	x		y														
Cool(Hi)	0.272		0.290														
Normal(Mid)	0.288		0.296														
Warm(Low)	0.313	0.329															
2			Picture: Normal White balance: Normal Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Normal". 2) Repeat procedure 3) to 11) of Cool mode.												
3			Picture: Normal White balance: Warm Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Warm". 2) Repeat procedure 3) to 11) of Cool mode.												
4			Picture: Normal White balance: Cool Aspect: 16:9	Picture Menu Sub Adjust Sub Bright	1) Change color templatue to "Cool". 2)Re-set Sub bright to "30"												

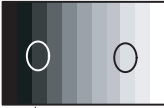
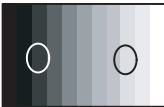
		Equipment	Setting	Alignment menu	Procedure																												
5	SECAM signal		Picture: Normal Aspect: 16:9 White balance: Cool Normal Warm		1) Write down each color temaparature of R,G,B drive and Cut off data as follows. <table border="1"><tr><td>White Balance</td><td>Cool</td><td>Normal</td><td>Warm</td></tr><tr><td>R Drive</td><td></td><td></td><td></td></tr><tr><td>G Drive</td><td></td><td></td><td></td></tr><tr><td>B Drive</td><td></td><td></td><td></td></tr><tr><td>R Cut off</td><td></td><td></td><td></td></tr><tr><td>G Cut off</td><td></td><td></td><td></td></tr><tr><td>B Cut off</td><td></td><td></td><td></td></tr></table>	White Balance	Cool	Normal	Warm	R Drive				G Drive				B Drive				R Cut off				G Cut off				B Cut off			
White Balance		Cool	Normal	Warm																													
R Drive																																	
G Drive																																	
B Drive																																	
R Cut off																																	
G Cut off																																	
B Cut off																																	
					2) Input SECAM signal. 3) Copy PAL R,G,B drive and cut off data of each white balance mode to SECAM position.																												

8.3. Pedestal setting

	INPUT	Equipment	Setting	Alignment menu	Procedure
1	Component (525i, 525p, 625i, 720i or 1080i) Gray Scale Pattern 		Picture: Normal White balance: Cool Aspect: 16:9	PANEL W/B R cut off G cut off B cut off Chroma Control: Gun off RGB Sub Adjust: G Sub Bright Chroma Control: Gun off RGB Sub Adjust: B Sub Bright Chroma Control: Gun off RGB Sub Adjust: R Sub Bright	** Adjust at the dark room. 1) Set R,G and B cut off to " 80 ". 2) Set Gun off to " 5 ". (Only green pixels can emit.) 3) Adjust G Sub bright to start some of green pixels emission at black 2% area and no emission at black 0% area. 4) Set Gun off to " 3 ". (Only blue pixels can emit.) 5) Adjust B Sub bright to start some of blue pixels emission at black 2% area and no emission at black 0% area. 6) Set Gun off to " 6 ". (Only red pixels can emit.) 7) Adjust R Sub bright to start some of red pixels emission at black 2% area and no emission at black 0% area.
2	RGB(PC) Gray Scale Pattern 		Picture: Normal White balance: Cool Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change input to RGB signal. 2) Repeat procedure 1) to 7) of Component input signal.

8.4. PC/RGB panel white balance

	INPUT	Equipment	Setting	Alignment menu	Procedure												
1	PC Gray Scale Pattern 	Color Analyzer	Picture: Normal White balance: Cool Aspect: 16:9	Sub Adjust Sub Bright PANEL W/B G cut off PANEL W/B B cut off R cut off Sub Adjust Sub Bright PANEL W/B G Drive PANEL W/B B Drive R Drive PANEL W/B R,G,B Drive R,G,B Drive PANEL W/B R,G,B cut off	1) Find the nearest area to brightness of 10 cd/m ² as Low light by color sensor. 2) Adjust Sub bright to set Low light level to 10 cd/m ² exactly. 3) Set G cut off to " 80 ". 4) Adjust B and R cut off to set color temperature as shown Fig.-03. 5) If Sub Bright is changed re-adjust it to set Low light to 10 cd/m ² . 6)Find 75% of white area by color sensor. 7) Set G Drive to " D8 ". 8) Adjust B and R Drive to set color temperature as shown Fig.-03. 9) Repeat item 4) to 7) to set both Low light and high light. 10) Increase same steps of R, G and B Drive to set largest level of 3 color drive to "FC". 11) Re-adjust Low light level again. <table border="1" data-bbox="932 1019 1294 1142"><tr><td>Color Temp.</td><td>x</td><td>y</td></tr><tr><td>Cool(Hi)</td><td>0.272</td><td>0.290</td></tr><tr><td>Normal(Mid)</td><td>0.288</td><td>0.296</td></tr><tr><td>Warm(Low)</td><td>0.313</td><td>0.329</td></tr></table> Fig. -03	Color Temp.	x	y	Cool(Hi)	0.272	0.290	Normal(Mid)	0.288	0.296	Warm(Low)	0.313	0.329
Color Temp.	x	y															
Cool(Hi)	0.272	0.290															
Normal(Mid)	0.288	0.296															
Warm(Low)	0.313	0.329															
2			Picture: Normal White balance: Normal Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Normal". 2) Repeat procedure 3) to 11) of Cool mode.												
3			Picture: Normal White balance: Warm Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Warm". 2) Repeat procedure 3) to 11) of Cool mode.												
4			Picture: Normal White balance: Cool Aspect: 16:9	Picture Menu Sub Adjust Sub Bright	1) Change color templatere to "Cool". 2)Re-set Sub bright to "30"												

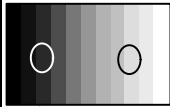
	INPUT	Equipment	Setting	Alignment menu	Procedure																												
5	RGB Gray Scale Pattern 		Picture: Normal Aspect: 16:9 White balance: Cool Normal Warm		1) Write down each color temaparature of R,G,B drive and Cut off data as follows. <table border="1" data-bbox="880 310 1354 549"><tr><td>White Balance</td><td>Cool</td><td>Normal</td><td>Warm</td></tr><tr><td>R Drive</td><td></td><td></td><td></td></tr><tr><td>G Drive</td><td></td><td></td><td></td></tr><tr><td>B Drive</td><td></td><td></td><td></td></tr><tr><td>R Cut off</td><td></td><td></td><td></td></tr><tr><td>G Cut off</td><td></td><td></td><td></td></tr><tr><td>B Cut off</td><td></td><td></td><td></td></tr></table> 2) Input RGB signal. 3) Copy PC R,G,B drive and cut off data of each white balance mode to RGB position.	White Balance	Cool	Normal	Warm	R Drive				G Drive				B Drive				R Cut off				G Cut off				B Cut off			
White Balance	Cool	Normal	Warm																														
R Drive																																	
G Drive																																	
B Drive																																	
R Cut off																																	
G Cut off																																	
B Cut off																																	
6	DVI Gray Scale Pattern 		Picture: Normal Aspect: 16:9 White balance: Cool Normal Warm		1) Write down each color temaparature of R,G,B drive and Cut off data as follows. <table border="1" data-bbox="880 936 1354 1174"><tr><td>White Balance</td><td>Cool</td><td>Normal</td><td>Warm</td></tr><tr><td>R Drive</td><td></td><td></td><td></td></tr><tr><td>G Drive</td><td></td><td></td><td></td></tr><tr><td>B Drive</td><td></td><td></td><td></td></tr><tr><td>R Cut off</td><td></td><td></td><td></td></tr><tr><td>G Cut off</td><td></td><td></td><td></td></tr><tr><td>B Cut off</td><td></td><td></td><td></td></tr></table> 2) Input DVI signal. 3) Copy PC R,G,B drive and cut off data of each white balance mode to DVI position.	White Balance	Cool	Normal	Warm	R Drive				G Drive				B Drive				R Cut off				G Cut off				B Cut off			
White Balance	Cool	Normal	Warm																														
R Drive																																	
G Drive																																	
B Drive																																	
R Cut off																																	
G Cut off																																	
B Cut off																																	

8.5. HD/ 525i /525p panel white balance

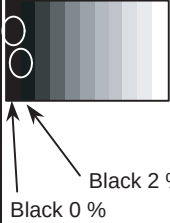
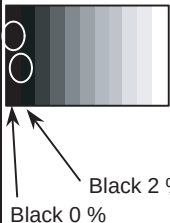
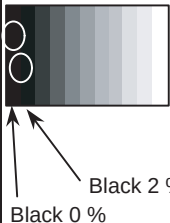
	INPUT	Equipment	Setting	Alignment menu	Procedure												
1	HD (720i or 1080i) Gray Scale Pattern 	Color Analyzer	Picture: Normal White balance: Cool Aspect: 16:9	Sub Adjust Sub Bright PANEL W/B G cut off PANEL W/B B cut off R cut off Sub Adjust Sub Bright PANEL W/B G Drive PANEL W/B B Drive R Drive PANEL W/B R,G,B Drive R,G,B Drive PANEL W/B R,G,B cut off	1) Find the nearest area to brightness of 10 cd/m ² as Low light by color sensor. 2) Adjust Sub bright to set Low light level to 10 cd/m ² exactly. 3) Set G cut off to " 80 ". 4) Adjust B and R cut off to set color temperature as shown Fig.-04. 5) If Sub Bright is changed re-adjust it to set Low light to 10 cd/m ² . 6)Find 75% of white area by color sensor. 7) Set G Drive to " D8 ". 8) Adjust B and R Drive to set color temperature as shown Fig.-04. 9) Repeat item 4) to 7) to set both Low light and high light. 10) Increase same steps of R, G and B Drive to set largest level of 3 color drive to "FC". 11) Re-adjust Low light level again. <table border="1" data-bbox="930 1051 1294 1172"><tr><td>Color Temp.</td><td>x</td><td>y</td></tr><tr><td>Cool(Hi)</td><td>0.272</td><td>0.290</td></tr><tr><td>Normal(Mid)</td><td>0.288</td><td>0.296</td></tr><tr><td>Warm(Low)</td><td>0.313</td><td>0.329</td></tr></table> Fig. -04	Color Temp.	x	y	Cool(Hi)	0.272	0.290	Normal(Mid)	0.288	0.296	Warm(Low)	0.313	0.329
Color Temp.	x	y															
Cool(Hi)	0.272	0.290															
Normal(Mid)	0.288	0.296															
Warm(Low)	0.313	0.329															
2			Picture: Normal White balance: Normal Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Normal". 2) Repeat procedure 3) to 11) of Cool mode.												
3			Picture: Normal White balance: Warm Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Warm". 2) Repeat procedure 3) to 11) of Cool mode.												
4			Picture: Normal White balance: Cool Aspect: 16:9	Picture Menu Sub Adjust Sub Bright	1) Change color templature to "Cool". 2)Re-set Sub bright to "30"												

	INPUT	Equipment	Setting	Alignment menu	Procedure																												
5	RGB Gray Scale Pattern High light 75% Low light 15%		Picture: Normal Aspect: 16:9 White balance: Cool Normal Warm		1) Write down each color temaparature of R,G,B drive and Cut off data as follows. <table><tr><th>White Balance</th><th>Cool</th><th>Normal</th><th>Warm</th></tr><tr><td>R Drive</td><td></td><td></td><td></td></tr><tr><td>G Drive</td><td></td><td></td><td></td></tr><tr><td>B Drive</td><td></td><td></td><td></td></tr><tr><td>R Cut off</td><td></td><td></td><td></td></tr><tr><td>G Cut off</td><td></td><td></td><td></td></tr><tr><td>B Cut off</td><td></td><td></td><td></td></tr></table> 2)Change input signal to 525i and 525p. 3) Copy HD drive and cut off data of each white balance mode to each signals position.	White Balance	Cool	Normal	Warm	R Drive				G Drive				B Drive				R Cut off				G Cut off				B Cut off			
White Balance	Cool	Normal	Warm																														
R Drive																																	
G Drive																																	
B Drive																																	
R Cut off																																	
G Cut off																																	
B Cut off																																	

8.6. 625i panel balance

	INPUT	Equipment	Setting	Alignment menu	Procedure												
1	625i Gray Scale Pattern 	Color Analyzer	Picture: Normal White balance: Cool Aspect: 16:9	Sub Adjust Sub Bright PANEL W/B G cut off PANEL W/B B cut off R cut off Sub Adjust Sub Bright PANEL W/B G Drive PANEL W/B B Drive R Drive PANEL W/B R,G,B Drive R,G,B Drive PANEL W/B R,G,B cut off	1) Find the nearest area to brightness of 10 cd/m ² as Low light by color sensor. 2) Adjust Sub bright to set Low light level to 10 cd/m ² exactly. 3) Set G cut off to " 80 ". 4) Adjust B and R cut off to set color temperature as shown Fig.-05. 5) If Sub Bright is changed re-adjust it to set Low light to 10 cd/m ² . 6)Find 75% of white area by color sensor. 7) Set G Drive to " D8 ". 8) Adjust B and R Drive to set color temperature as shown Fig.-05. 9) Repeat item 4) to 7) to set both Low light and high light. 10) Increase same steps of R, G and B Drive to set largest level of 3 color drive to "FC". 11) Re-adjust Low light level again. <table border="1" data-bbox="932 1019 1292 1142"><tr><td>Color Temp.</td><td>x</td><td>y</td></tr><tr><td>Cool(Hi)</td><td>0.272</td><td>0.290</td></tr><tr><td>Normal(Mid)</td><td>0.288</td><td>0.296</td></tr><tr><td>Warm(Low)</td><td>0.313</td><td>0.329</td></tr></table> Fig. -05	Color Temp.	x	y	Cool(Hi)	0.272	0.290	Normal(Mid)	0.288	0.296	Warm(Low)	0.313	0.329
Color Temp.	x		y														
Cool(Hi)	0.272		0.290														
Normal(Mid)	0.288	0.296															
Warm(Low)	0.313	0.329															
2		Picture: Normal White balance: Normal Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Normal". 2) Repeat procedure 3) to 11) of Cool mode.													
3		Picture: Normal White balance: Warm Aspect: 16:9	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Warm". 2) Repeat procedure 3) to 11) of Cool mode.													
4			Picture: Normal White balance: Cool Aspect: 16:9	Picture Menu Sub Adjust Sub Bright	1) Change color templatere to "Cool". 2)Re-set Sub bright to "30"												

8.7. Sub brightness setting

	INPUT	Equipment	Setting	Alignment menu	Procedure
1	NTSC Gray Scale Pattern 		Picture: Normal Aspect: 16:9	PANEL W/B All cut off	** Adjust at the dark room. 1) Set white balance to Cool . 2) Adjust All cut off to start some pixels emission at black 2% area and no emission at black 0% area. 3) Write down all cut off data. 4) Set white balance to Normal . 5) Adjust All cut off to set same data of Cool mode. 6) Set white balance to warm . 7) Adjust All cut off to set same data of Cool mode.
2	PAL Gray Scale Pattern 		Picture: Normal Aspect: 16:9	PANEL W/B All cut off	** Adjust at the dark room. 1) Set white balance to Cool . 2) Adjust All cut off to start some pixels emission at black 2% area and no emission at black 0% area. 3) Write down all cut off data. 4) Set white balance to Normal . 5) Adjust All cut off to set same data of Cool mode. 6) Set white balance to warm . 7) Adjust All cut off to set same data of Cool mode.
	SECAM Gray Scale Pattern				8) Change to SECAM signal. 9) Copy PAL All cut off data to SECAM mode.
3	PC Gray Scale Pattern 		Picture: Normal Aspect: 16:9	PANEL W/B All cut off	** Adjust at the dark room. 1) Set white balance to Cool . 2) Adjust All cut off to start some pixels emission at black 2% area and no emission at black 0% area. 3) Write down all cut off data. 4) Set white balance to Normal . 5) Adjust All cut off to set same data of Cool mode. 6) Set white balance to warm . 7) Adjust All cut off to set same data of Cool mode.
	RGB Gray Scale Pattern				8) Change to RGB input signal. 9) Copy PC All cut off data to RGB mode.
	DVI Gray Scale Pattern				10) Change to DVI input signal. 11) Copy PC All cut off data to DVI mode.

	INPUT	Equipment	Setting	Alignment menu	Procedure
4	525i Gray Scale Pattern  525p Gray Scale Pattern HD (720i or 1080i) Gray Scale Pattern		Picture: Normal Aspect: 16:9	PANEL W/B All cut off	** Adjust at the dark room. 1) Set white balance to Cool . 2) Adjust All cut off to start some pixels emission at black 2% area and no emission at black 0% area. 3) Write down all cut off data. 4) Set white balance to Normal . 5) Adjust All cut off to set same data of Cool mode. 6) Set white balance to warm . 7) Adjust All cut off to set same data of Cool mode. 8) Change to 525p signal. 9) Copy 525i All cut off data to 525p mode. 8) Change to HD signal. 9) Copy 525i All cut off data to HD mode.
5	625i Gray Scale Pattern  625p Gray Scale Pattern HD (720i or 1080i) Gray Scale Pattern		Picture: Normal Aspect: 16:9	PANEL W/B All cut off	** Adjust at the dark room. 1) Set white balance to Cool . 2) Adjust All cut off to start some pixels emission at black 2% area and no emission at black 0% area. 3) Write down all cut off data. 4) Set white balance to Normal . 5) Adjust All cut off to set same data of Cool mode. 6) Set white balance to warm . 7) Adjust All cut off to set same data of Cool mode.

9 Trouble shooting guide

9.1. Self Check

9.1.1. Display Indication

1. Self-check is used to automatically check the bus line controlled circuit of the Plasma display.
2. To get into the Self-check mode press the **volume down** button on the customer controls at the front of the set, at the same time pressing the **OFF-TIMER** button on the remote control, and the screen will show :-

If the CCU ports have been checked and found to be incorrect Or not located then " - - " will appear in place of " OK "

Note:

In case of disconnected of HZ "IC3699 - -" is displayed.

ID	IIC1	IIC2	IIC3
H	IC3301	OK H21	
	IC3603	OK H51	
	IC3804	OK H52	
	IC3699	OK H53	
J	IC1004	OK H53	IC2401 OK H54
			IC3001 OK H55
			IC3004 OK H55
D	IC9701	OK H57	IC9202 OK H58
			IC9302 OK H56
			IC9204 OK H59
			IC9400 OK H60
			IC9501 OK H61

9.1.2. Power LED Flashing timing chart

When an abnormality has occurred the unit, the protection circuit operates and cuts the power supply. At this time, the defective part can be identified by the number of flashes of the Power LED at the front of the unit.

Flashing times	Flashing timing	Contents & Check point
Twice		Driver LSI (in SS, SC, C board) has trouble.
Three		+3.3 V voltage drop
Four		+5 V voltage drop
Six		Fan circuit / Fan stop disconnects the P10 to P13.

Above Fan function is operated during the fan is set.

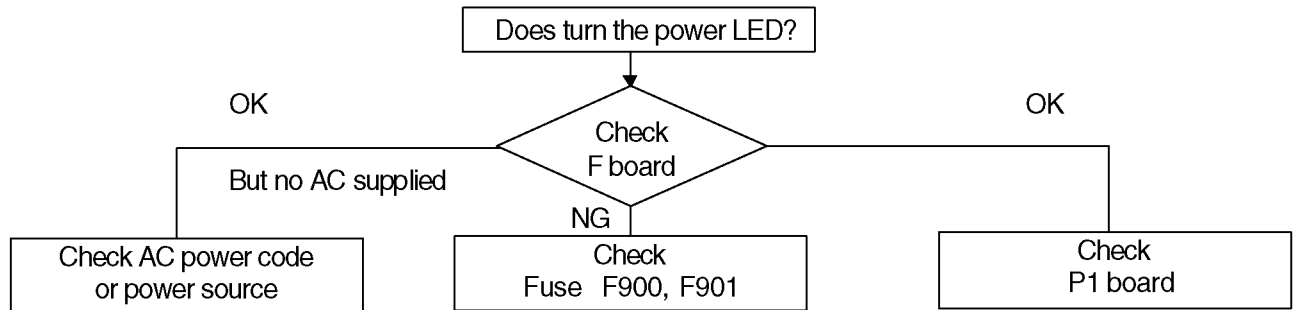
9.2. No Power

First check point

There are following 3 states of No Power indication by power LED.

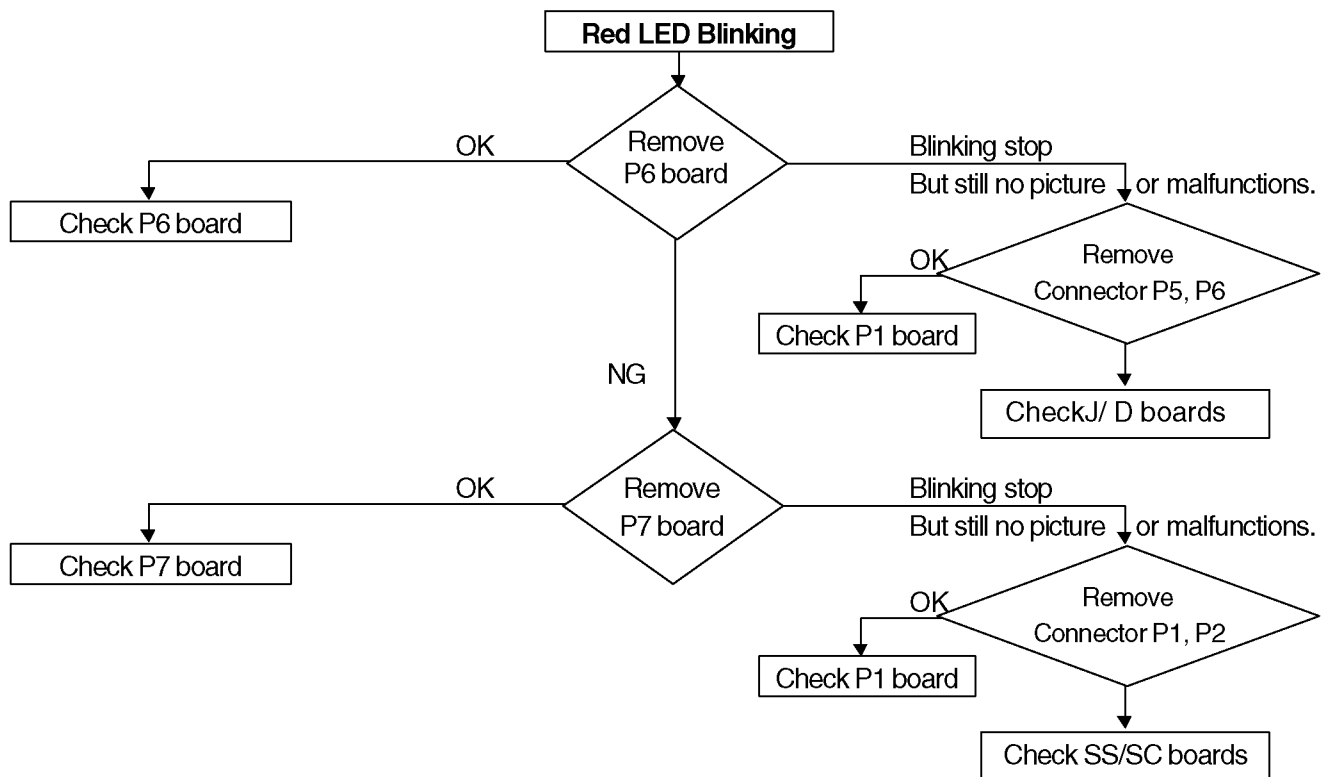
1. No lit
2. Green is lit then turns red blinking a few seconds later.
3. Only red is lit.

1. No lit

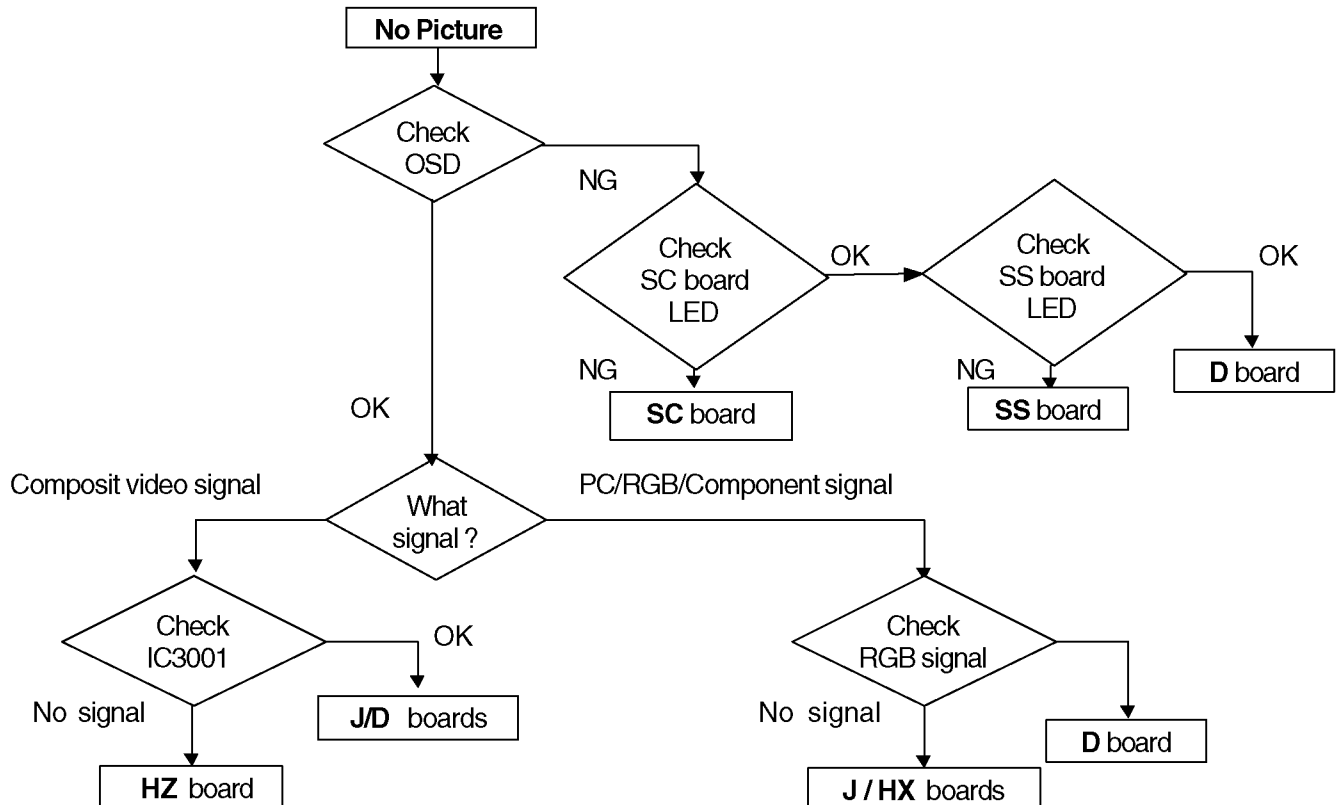


2. Red LED Blinking

When one or some of supply voltages from power supply circuit are declined red LED will be blinking as power



9.3. No Picture



9.4. Local screen failure

Plasma display may have local area failure on the screen. Fig - 1 is the possible defect P.C.B. for each local area.

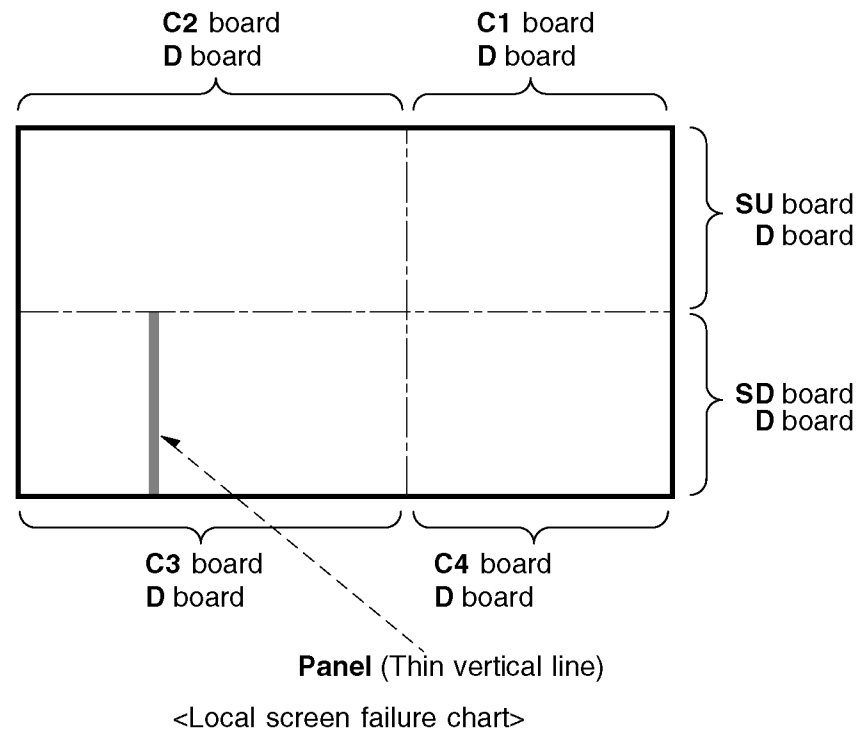


Fig - 1

9.5. D-Board

9.5.1. OUTLINE

D board is consists of Analogue and Digital signal process, Discharge control and Micro control block.

D-board is operated by supply voltages of 3.3V, 5V, 13.5V and Standby 5V , RGB analogue (0.7Vp-p) and Sync. Signal.

D-board output parallel data video signal with control signal for the data driver circuit, Discharge control signal for Scan and Sustain drive circuits and Micro control signals.

9.5.2. MAIN IC OPERATION

IC9007 ~ 9009 A/D Converter

RGB analogue signals are converted to 8 bits digital signal.

IC9204 FORMAT CONVERTER (LSI33)

Number of Horizontal line of input signals are converted to 480 lines.

This IC uses two clock lines, one is 15M 55MHz for input signal (ICK) and other one is 25M to 40MHz for out put signal. (OCK)

IC9400 PLASMA AI (LSI27)

At first input 8 bit signal data is memorized into two field memory (IC9402, IC9403), Plasma AI analyze APL level and distribution of dark and bright components.

Plasma AI re-arrange 8 bit signal data to 12 bit signal data.

This IC also insert OSD (On-Screen Display signal) from Micro.

IC9501 SUB FIELD PROCESSOR

R,G and B 12 bit signal data is layout to fit with each electrodes of panel.

One field signal data is separated to upper 240 lines and lower 240 lines.

Both upper and lower signals are again separated odd and even number line and output.

9.5.3. DIAGNOSTIC

(1) General

Depend on the phenomenon possible defective section from Signal processing, Discharge control or Micro control section on D-board can be diagnosed as follows.

1. Signal Processing section

- a. No picture but panel has discharge.
- b. Missing R, G or B signal
- c. Dark Picture.
- d. No OSD signal.
- e. Vertical band noise appeared.
- f. No picture or distortion on 1/4 area on the screen.

2. Micro control section

- a. Does not turn on power.
- b. No panel discharge.

3. Discharge control section

- a. No discharge but Micro control is operated.
- b. Dark picture

(2) First Check Point

Confirm that follow signals are input to D board.

Power Supply

Connector	Pin	Function	Connector	Pin	Function
D5	1	13.5 V DC	D6	1	STB 5 V DC
	3	5.0 V DC		2	3.3 V DC
	-	-		3	3.3 V DC

Input Signal

Connector	Function		Pin	Function
D8-12	Analogue Green signal	D9	37	HD (Horizontal Drive pulse)
D8-13	Analogue Blue signal		29	VD (Vertical Drive pulse)
D8-14	Analogue Red signal		34	CLP (Clamp pulse)

(3) Trouble shooting

1. No Power ON (No power LED turn ON)

Check IC9701	VDD	5 V	Pin 8, 21, 37, 56, 79, 91, 97, 126, 138
	RESET	5 V	Pin 35
	CLOCK	20 MHz	Pin 38

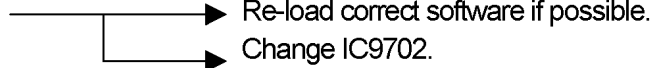
Check IC9702 (VRAM) , IC9705 (FLASH), IC9706 (EEPROM)

Confirm each pin of those have some pulses.

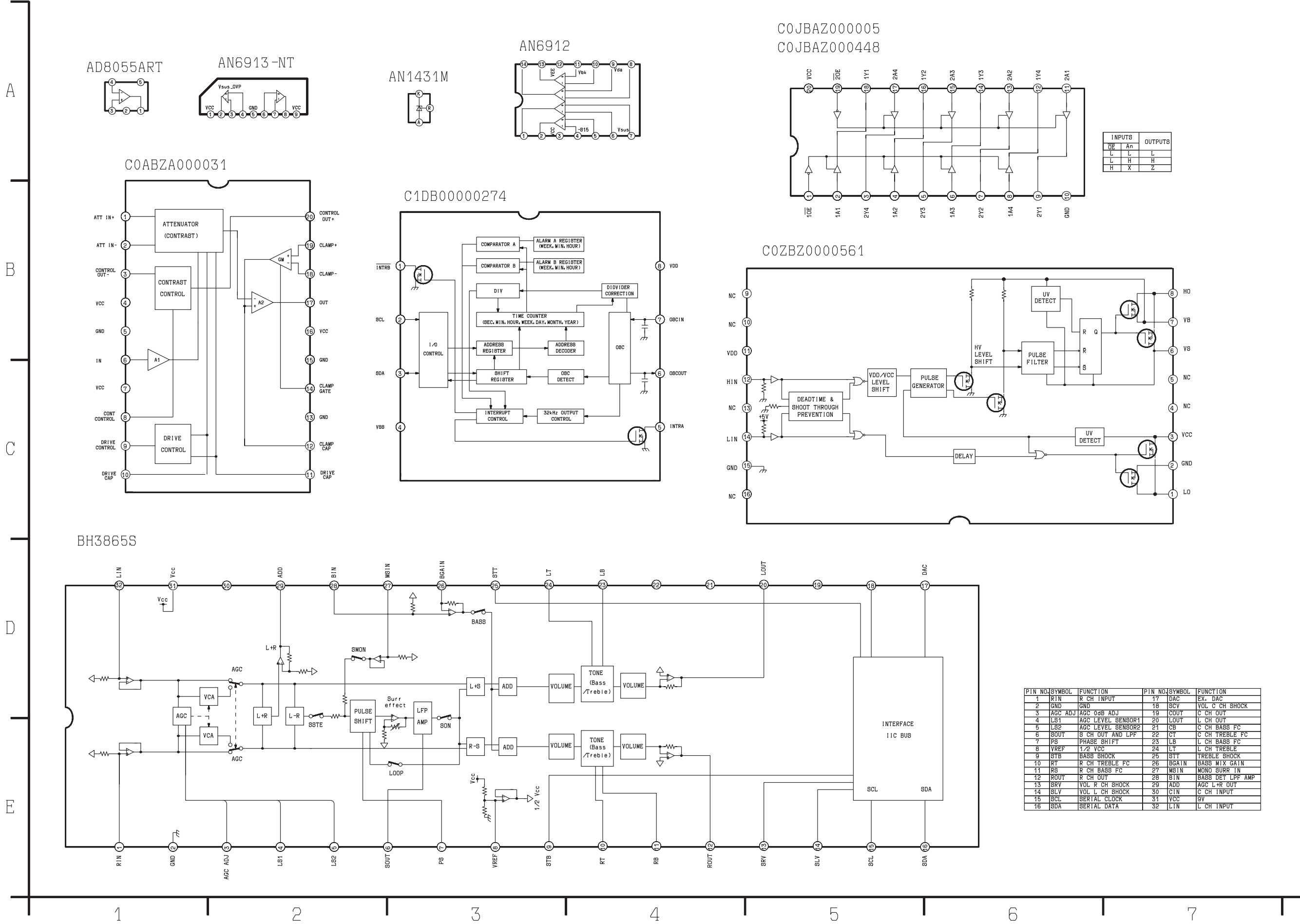


Example:

IC9702 Trouble

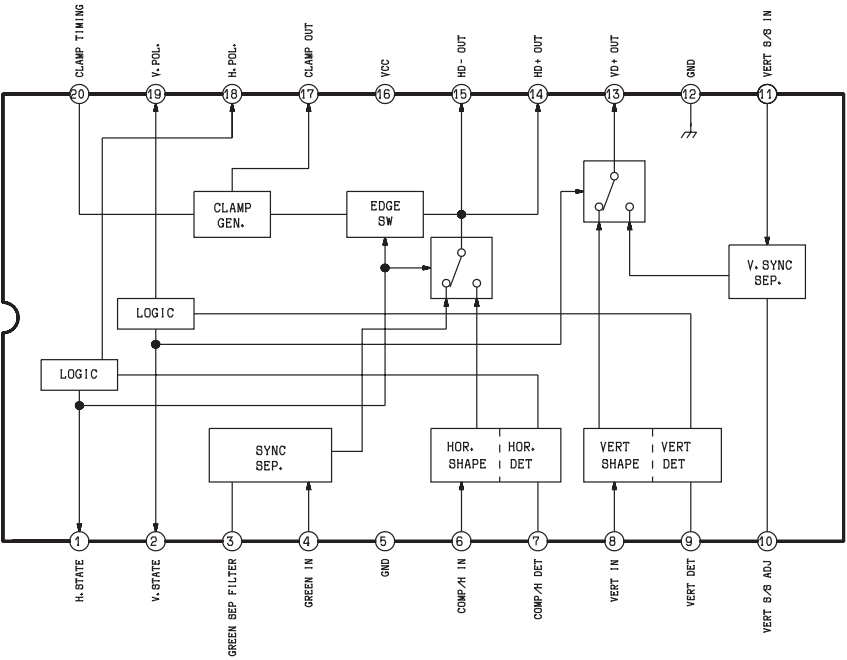


10 IC Block Diagram

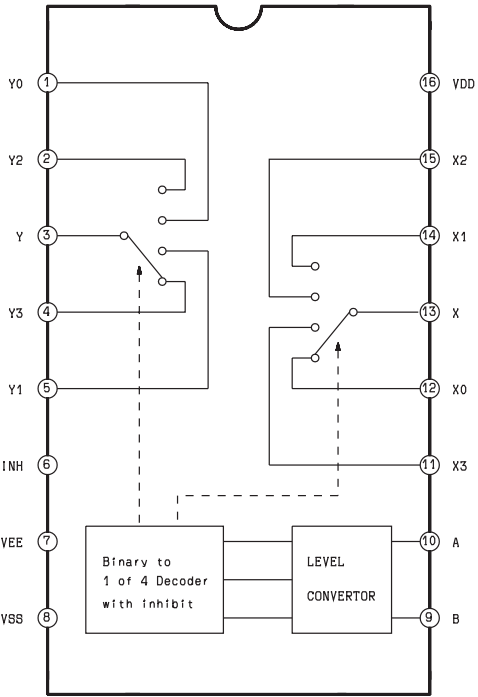


31

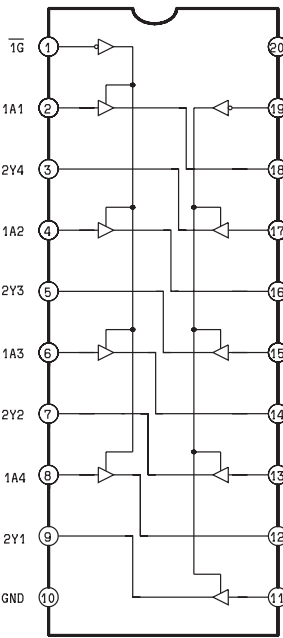
M52036SP



MC14052BF



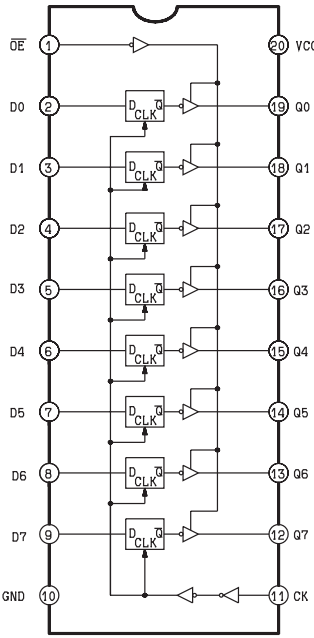
TC74ACT244F
TC74HC244F
TC74LCX244F



INPUTS		OUTPUTS	
G	An	L	L
L	L	H	H
H	X	Z	Z

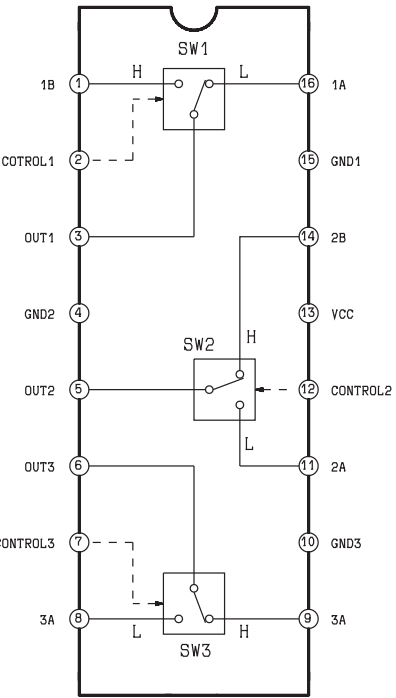
X:Don't Care
Z:High Impedance

TC74LCX574F

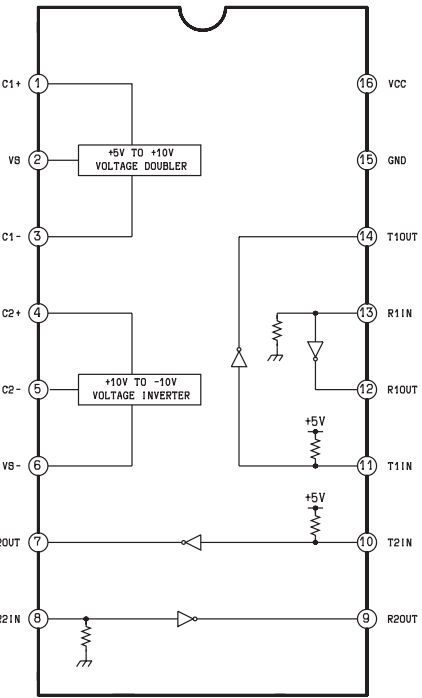


INPUTS			OUTPUTS	
OE	CK	D	L	L
H	X	X	Z	Z
L	L	X	H	H
L	L	L	L	L
L	L	H	H	H

M52055FP

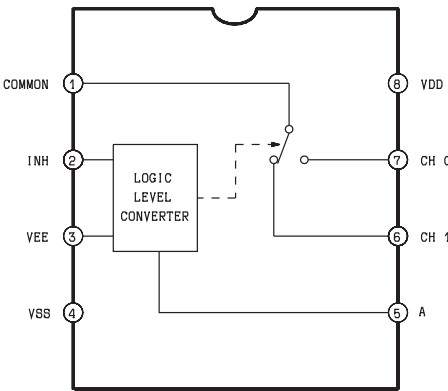


MAX202CSE



INPUTS		OUTPUTS	
A	B	X	Y
L	L	X0	Y0
L	H	X1	Y1
H	L	X2	Y2
H	H	X3	Y3

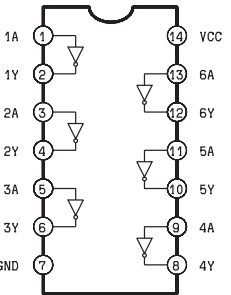
TC4W53F



INPUTA		ON CHANNEL	
INH	A	CH 0	CH 1
L	L	CH 0	CH 1
L	H	CH 0	CH 1
H	*	NONE	NONE

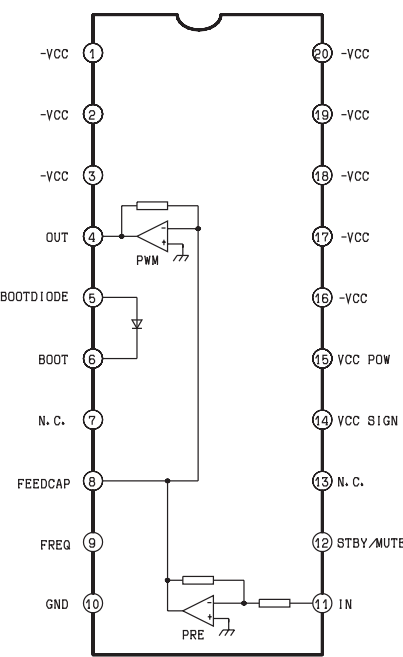
*:Don't care

TC74HC14AF
TC74HCU04AF



A	Y
L	H
H	L

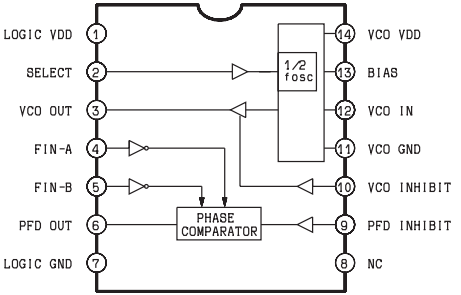
TDA7480



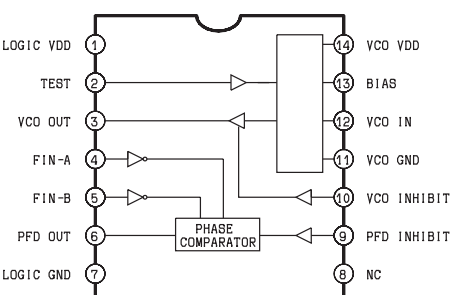
INPUTS		OUTPUTS	
G	An	L	L
L	L	H	H
H	X	Z	Z

X:Don't Care
Z:High Impedance

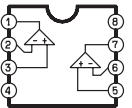
TCL2932



TCL2933



NJM2903M



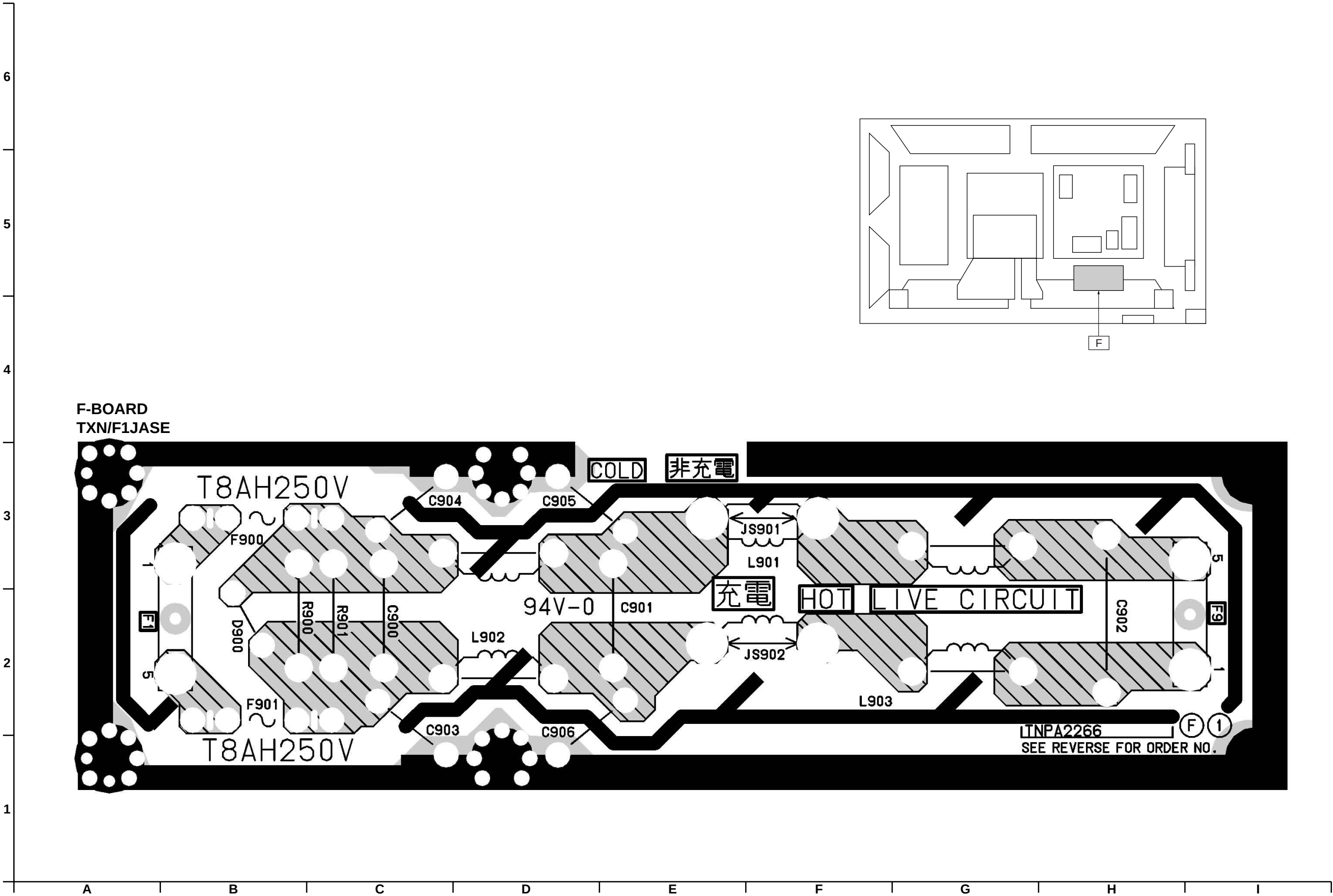
TC7SH32FU



A	B	Y
L	L	H
L	H	H
H	L	H
H	H	L

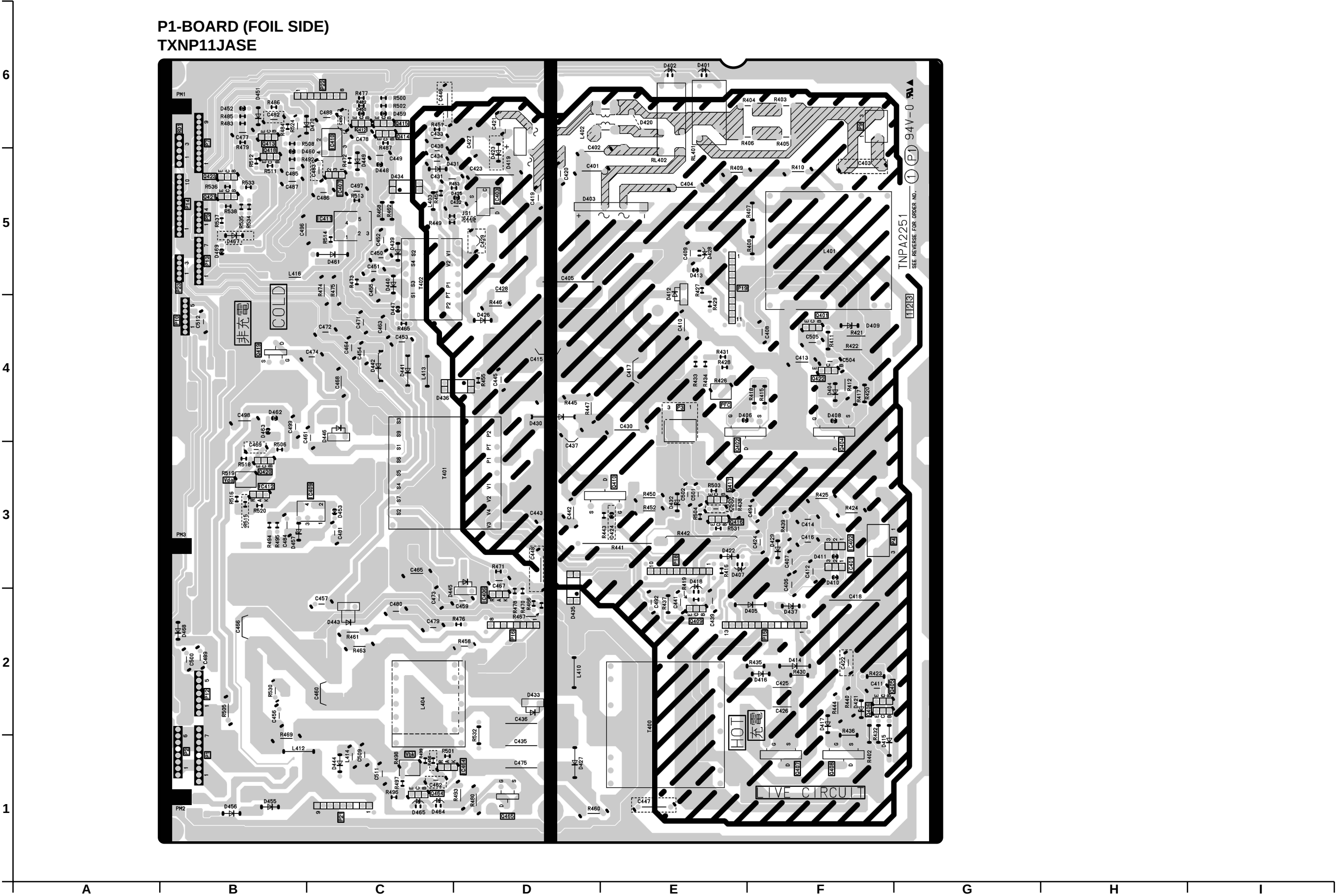
11 Conductor Views

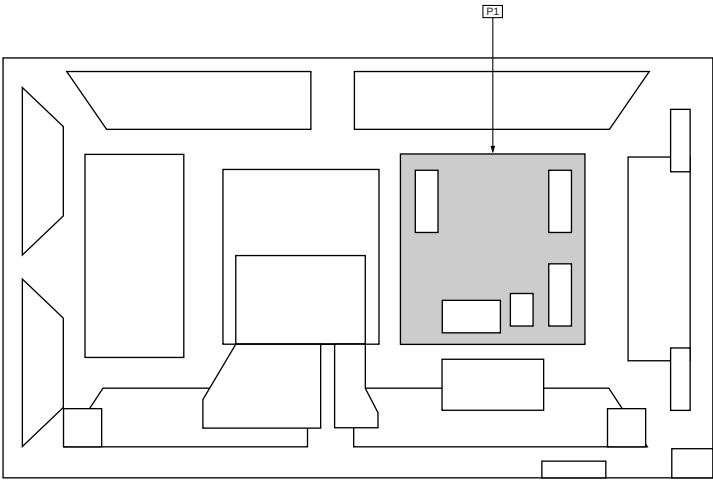
11.1. F-Board



11.2. P1-Board

P1-BOARD (FOIL SIDE)
TXNP11JASE





Parts Location

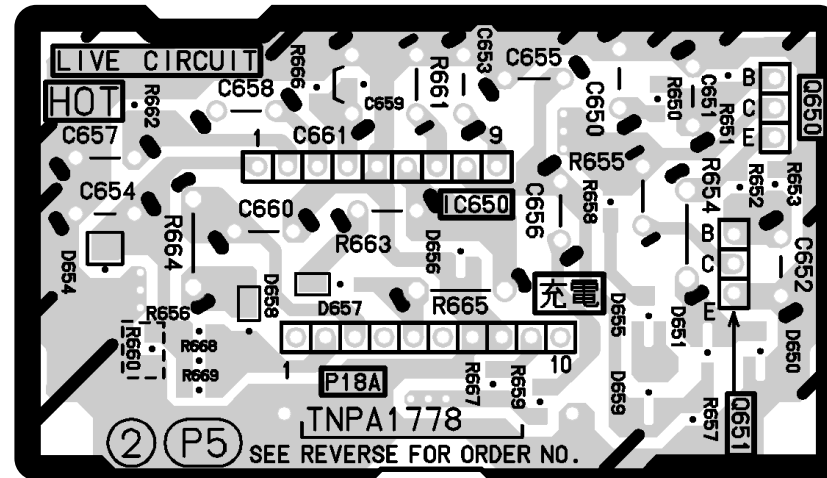
P-BOARD (FOIL SIDE)					
IC		TRANSISTOR			
IC401	F-3	Q401	F-4	Q417	E-3
IC402	F-3	Q402	E-3	Q418	B-5
IC403	D-5	Q404	F-3	Q419	B-4
IC406	D-2	Q405	F-2	Q420	B-3
IC407	C-5	Q406	F-2	Q421	B-5
IC409	C-3	Q407	F-1	Q422	F-4
IC410	C-5	Q408	F-1	Q423	B-5
IC411	C-5	Q409	E-2	Q464	C-1
IC412	B-3	Q410	E-3	Q465	D-1
IC464	D-1	Q412	C-6		
		Q413	B-5		
		Q414	C-6		
		Q415	C-6		
		Q416	E-3		

Parts Location

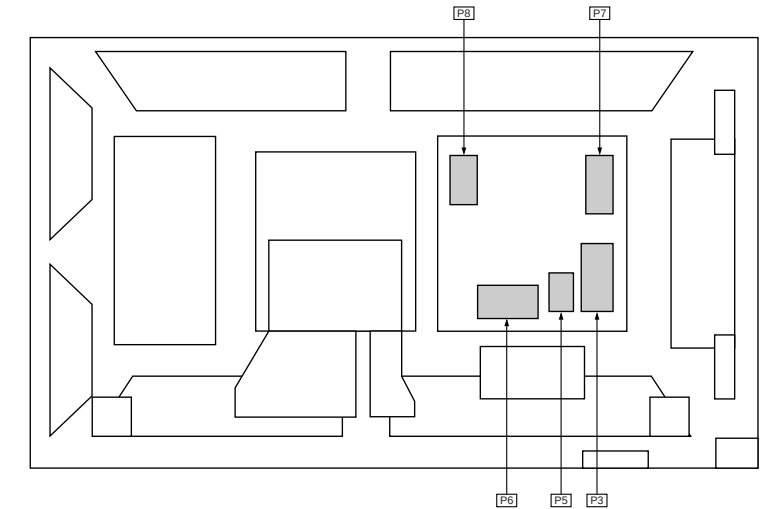
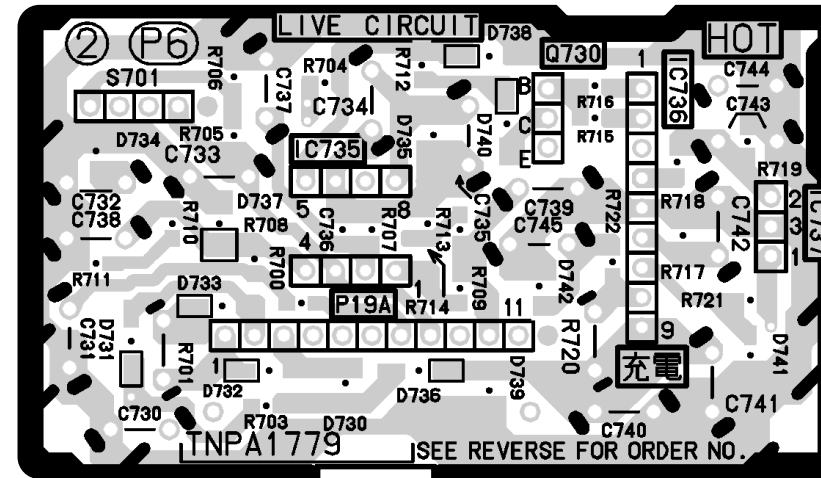
P-BOARD (COMPONENT SIDE)					
IC		TRANSISTOR			
IC401	B-3	Q401	B-3	Q418	F-5
IC402	B-3	Q402	C-4	Q419	F-4
IC403	E-5	Q404	B-3	Q420	F-3
IC406	E-2	Q405	B-2	Q421	F-5
IC407	E-5	Q406	B-2	Q422	B-3
IC409	F-3	Q407	B-1	Q423	F-5
IC410	F-5	Q408	B-1	Q464	E-1
IC411	F-5	Q409	C-2	Q465	D-1
IC412	F-3	Q410	D-3		
IC464	E-1	Q413	F-5		
		Q414	E-6		
		Q415	E-6		
		Q416	C-3		
		Q417	C-3		

11.3. P3, P5, P6, P7 and P8-Board

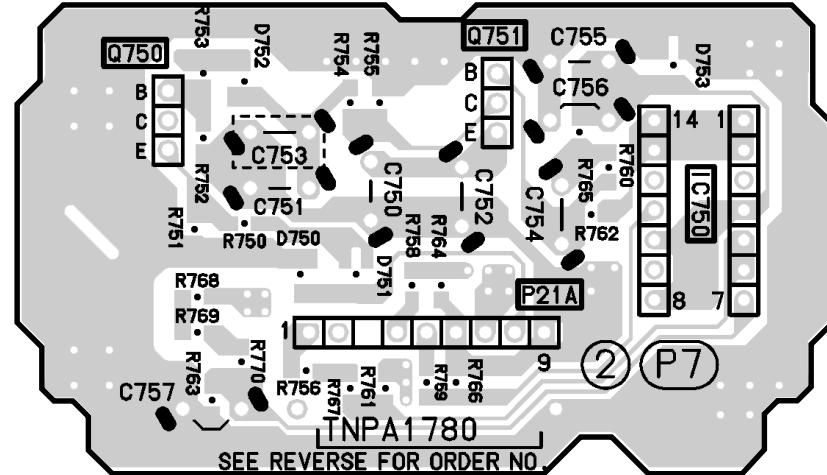
P5-BOARD (FOIL SIDE)
TNPA1778



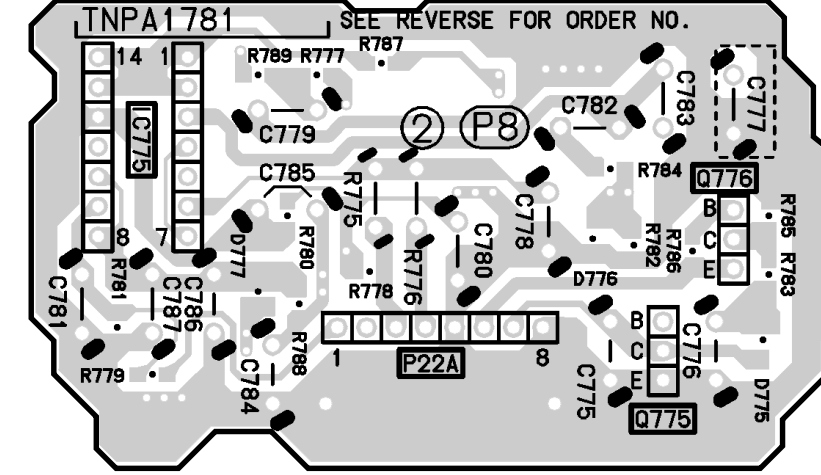
P6-BOARD (FOIL SIDE)
TNPA1779



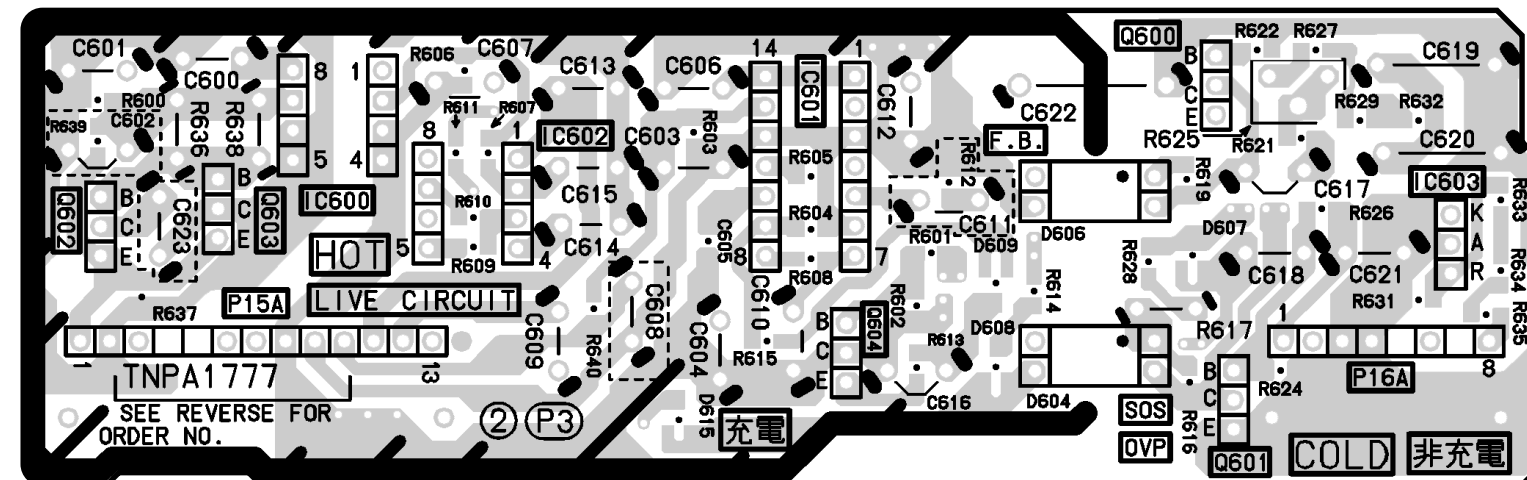
P7-BOARD (FOIL SIDE)
TNPA1780



P8-BOARD (FOIL SIDE)
TNPA1781



P3-BOARD (FOIL SIDE)
TNPA1777



6
5
4
3
2
1



A vertical number line with tick marks labeled 1, 2, 3, 4, 5, and 6.



4



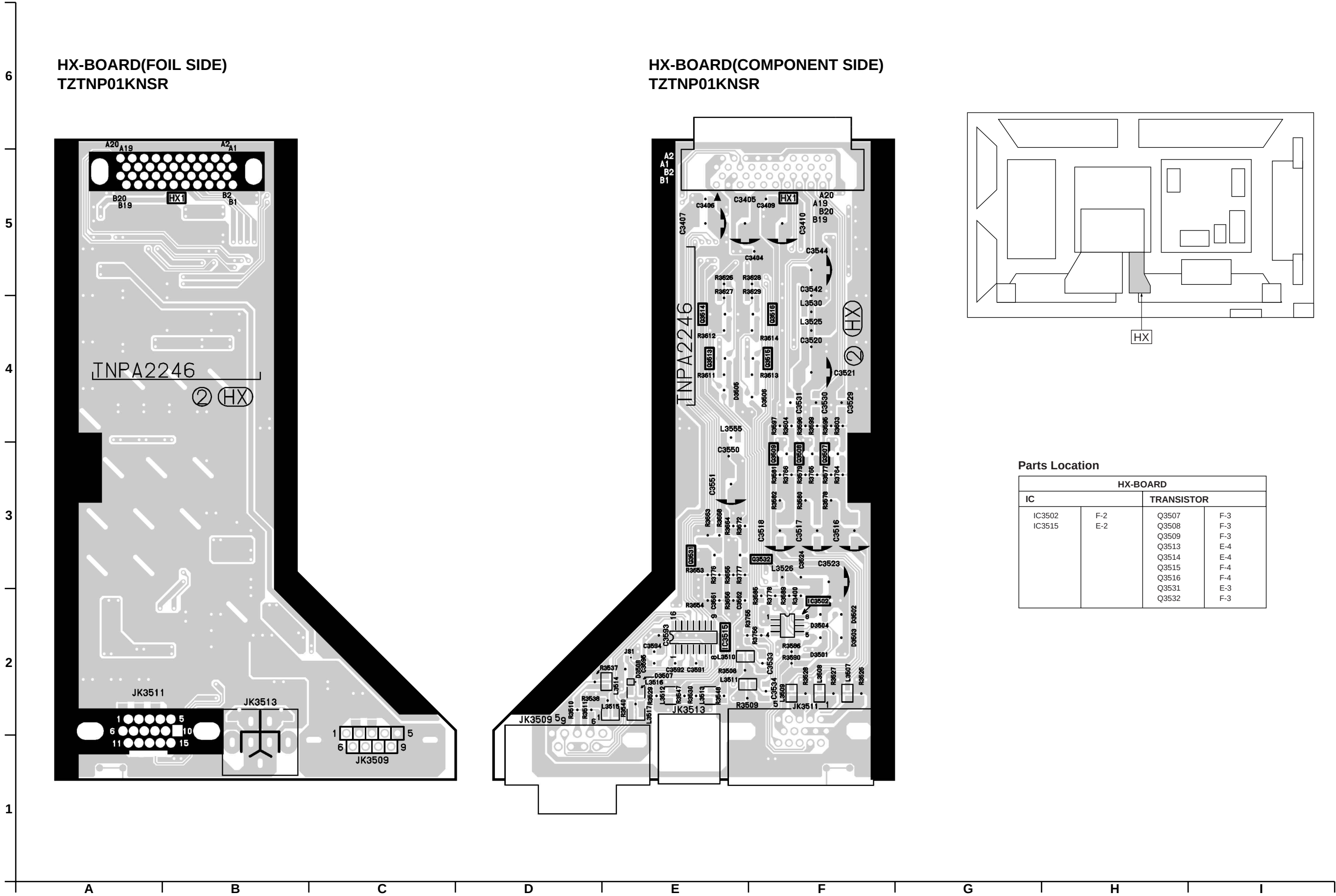
4



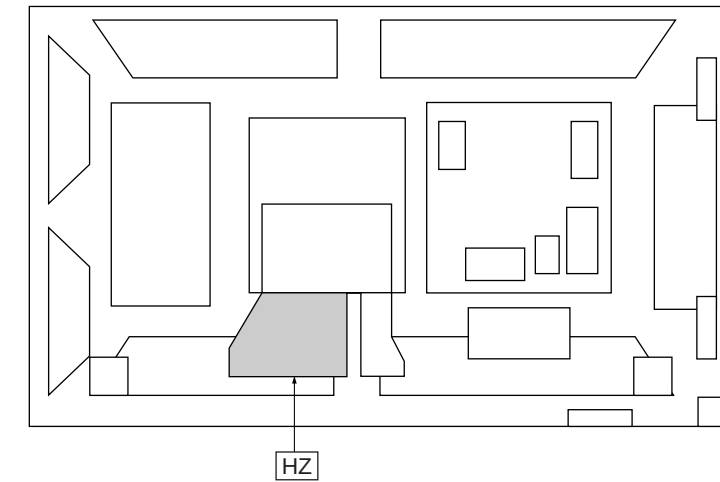
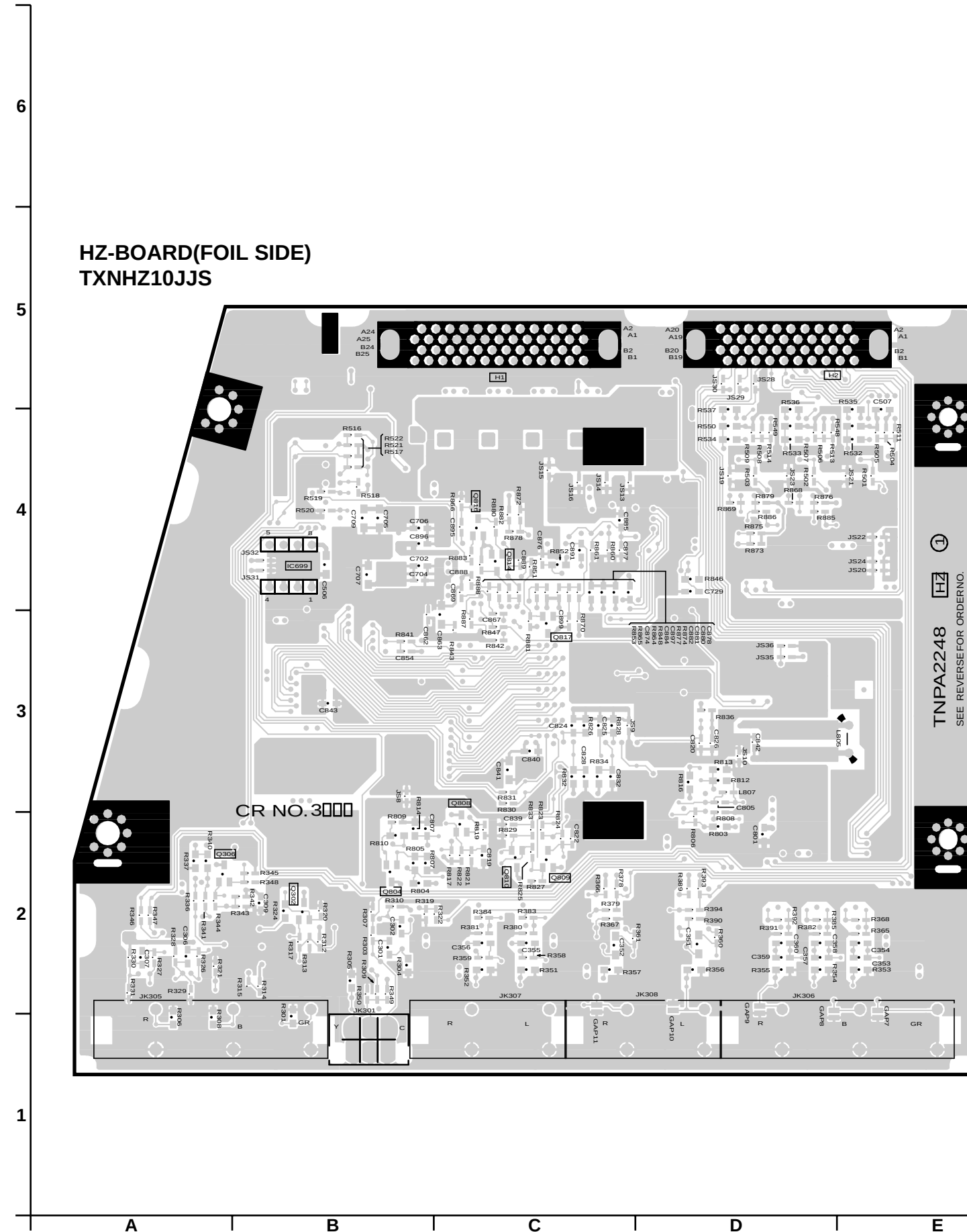
2
1



11.4. HX-Board



11.5. HZ-Board (Option RTB421)



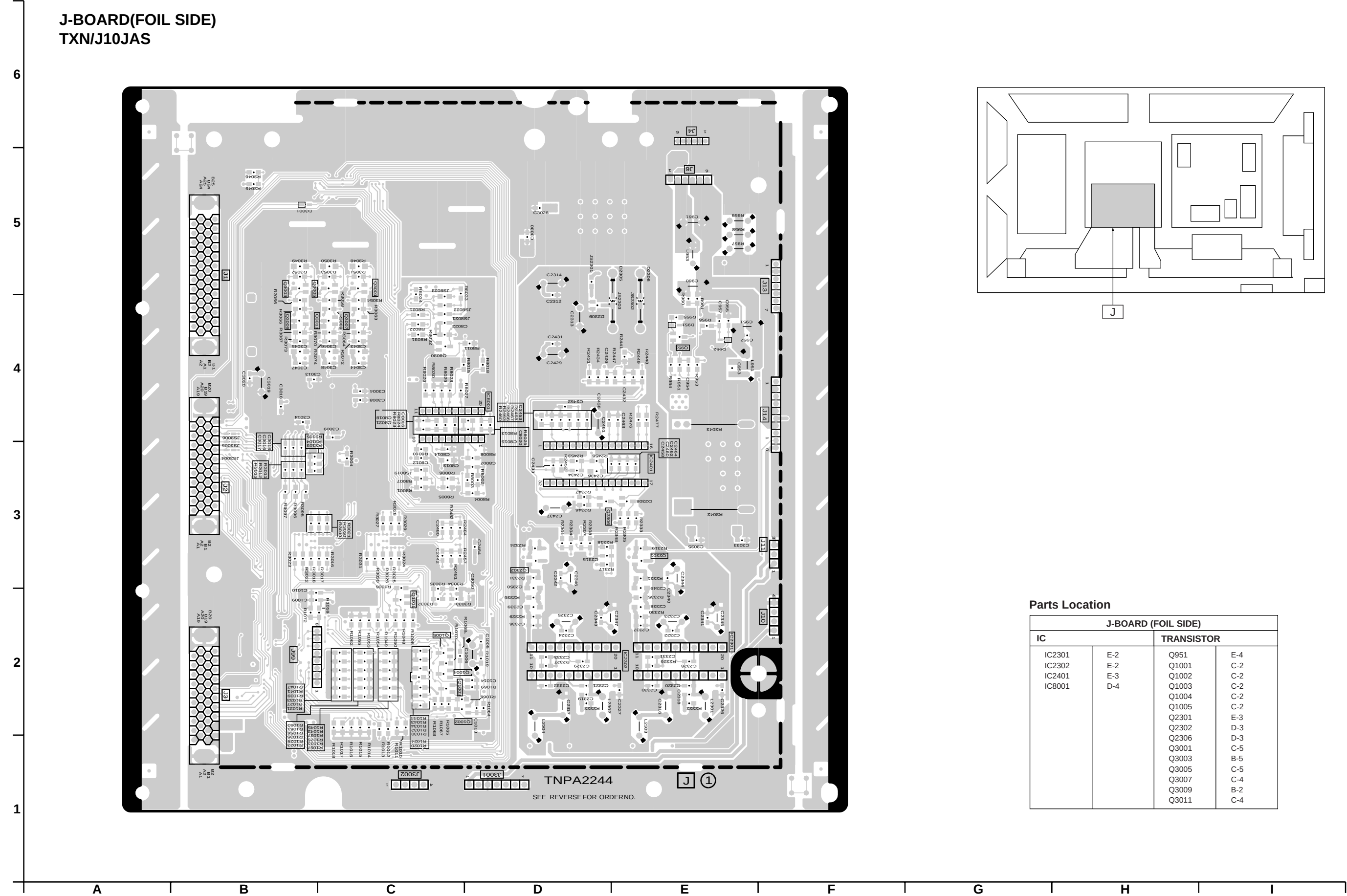
Parts Location

HZ-BOARD (FOIL SIDE)			
IC		TRANSISTOR	
IC3699	B-4	Q3302	B-2
		Q3306	A-2
		Q3804	B-2
		Q3808	C-3
		Q3809	C-2
		Q3810	C-2
		Q3814	C-4
		Q3816	C-4
		Q3817	C-3



HZ-BOARD (COMPONENT SIDE)					
IC		TRANSISTOR			
IC3301	E-2	Q3301	D-2	Q3507	A-4
IC3301	E-2	Q3303	D-2	Q3508	B-4
IC3302	D-2	Q3304	E-2	Q3509	B-4
IC3303	B-4	Q3305	E-2	Q3510	B-5
IC3501	D-4	Q3307	D-2	Q3801	B-2
IC3699	D-4	Q3308	B-4	Q3802	C-2
IC3801	B-2	Q3309	D-2	Q3803	B-2
IC3802	B-3	Q3351	A-2	Q3805	B-3
IC3803	D-3	Q3352	C-2	Q3806	C-2
IC3804	C-4	Q3353	B-2	Q3807	C-2
IC3805	C-4	Q3354	C-2	Q3812	B-4
IC3806	C-4	Q3355	C-2	Q3813	B-4
IC3809	B-3	Q3356	A-2	Q3815	B-4
		Q3357	B-2	TP	
		Q3358	B-2	TPHB1	B-5
		Q3359	B-2	TPHH1	B-4
		Q3501	A-4	TPHR1	B-5
		Q3502	A-4	TPHV1	B-4
		Q3503	B-4	TPHY1	A-4

11.6. J-Board



6 |

32 |

1 |

A

C

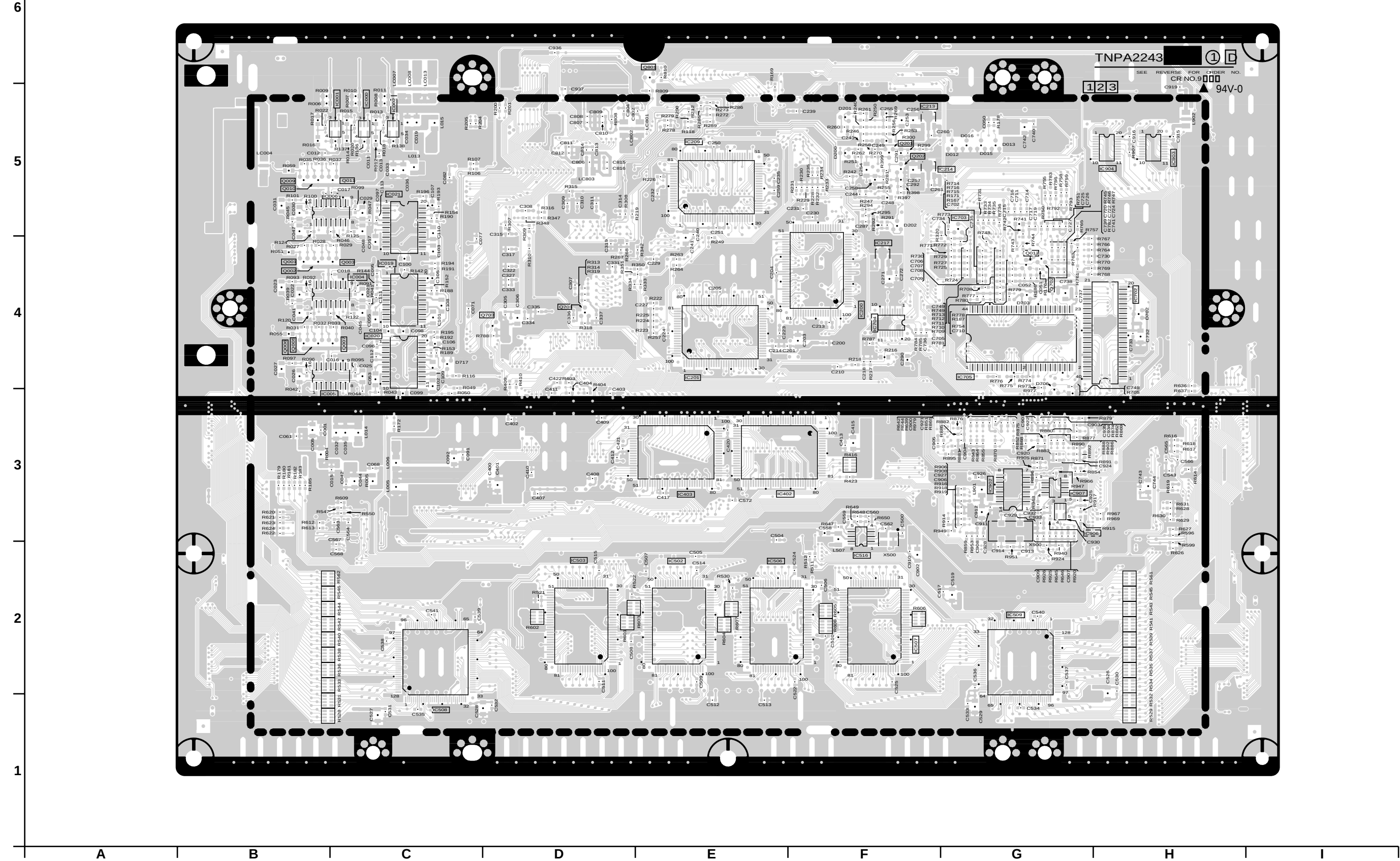
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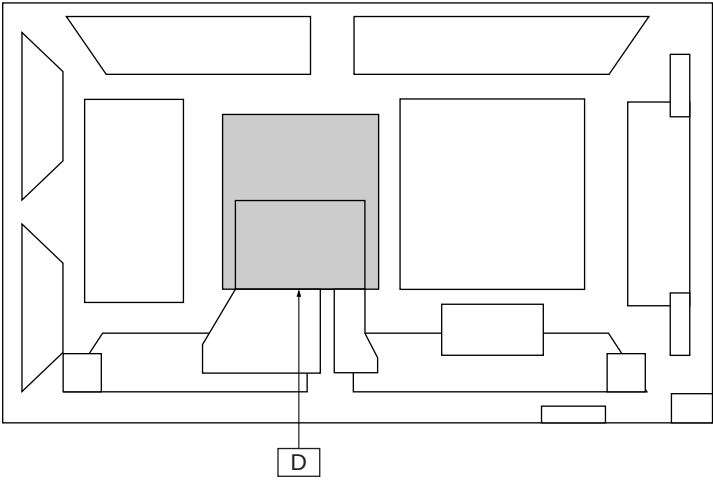
E

E

11.7. D-Board

D-BOARD(FOIL SIDE)
TZTNP02KNSR (42WP16A, B, E, H, R)
TZTNP01KNSC (42WP16C)





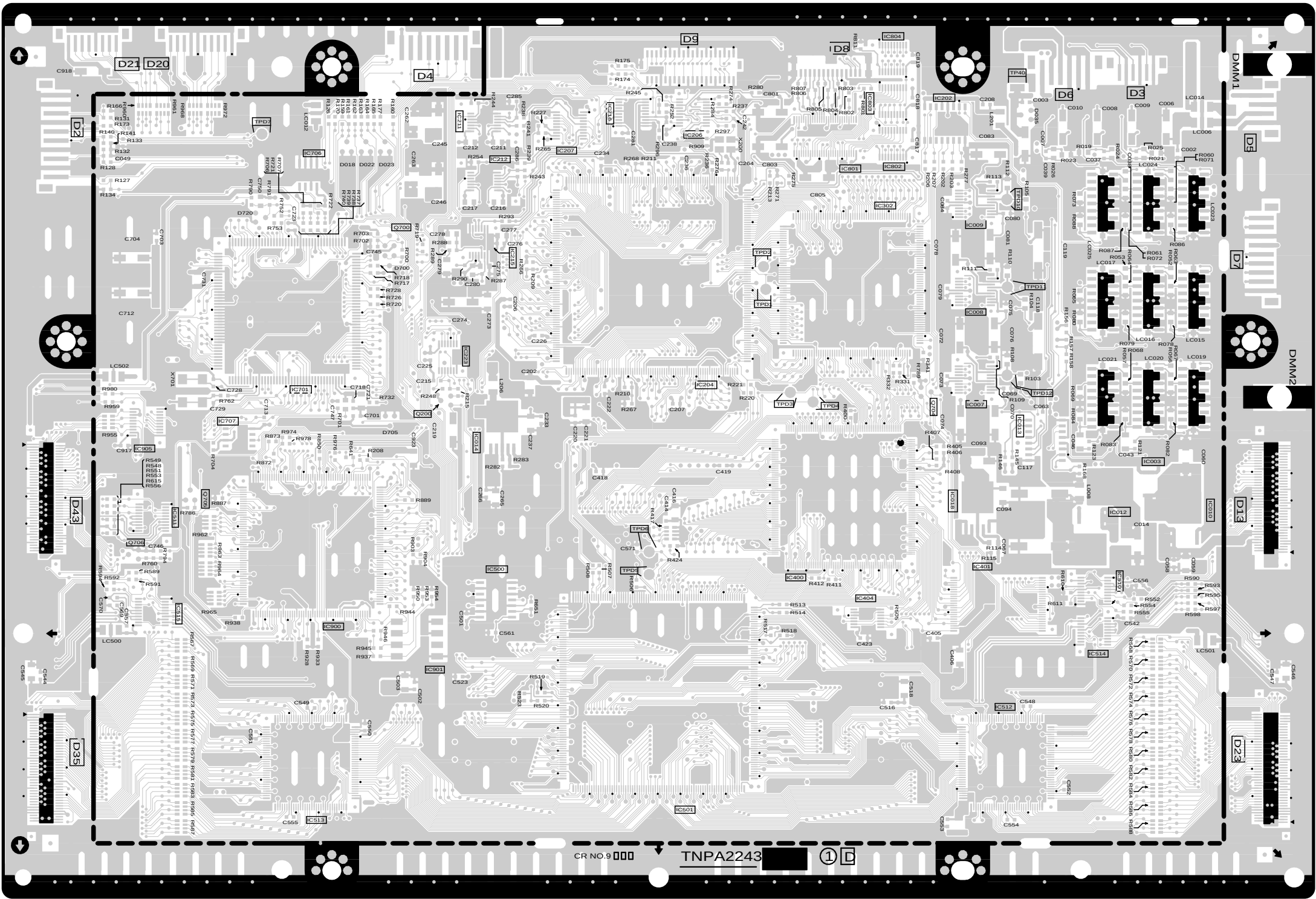
Parts Location

D-BOARD (FOIL SIDE)			
IC		TRANSISTOR	
IC9000	C-5	Q9001	B-4
IC9001	C-5	Q9002	B-4
IC9002	C-5	Q9003	C-4
IC9004	C-4	Q9005	B-4
IC9005	B-3	Q9006	B-4
IC9019	C-4	Q9007	C-4
IC9020	C-4	Q9009	B-5
IC9021	C-5	Q9010	B-5
IC9200	F-4	Q9011	C-5
IC9201	E-4	Q9013	G-4
IC9209	E-5	Q9201	F-5
IC9213	F-5	Q9202	F-5
IC9214	F-5	Q9701	D-4
IC9217	F-5	Q9702	G-4
IC9402	E-3	Q9703	D-4
IC9403	E-3	Q9801	E-6
IC9502	E-2		
IC9503	D-2		
IC9506	E-2		
IC9507	F-2		
IC9508	C-1		
IC9509	G-2		
IC9516	F-2		
IC9702	G-4		
IC9703	G-5		
IC9704	F-4		
IC9705	G-4		
IC9902	G-3		
IC9903	G-5		
IC9904	G-5		
IC9907	G-3		

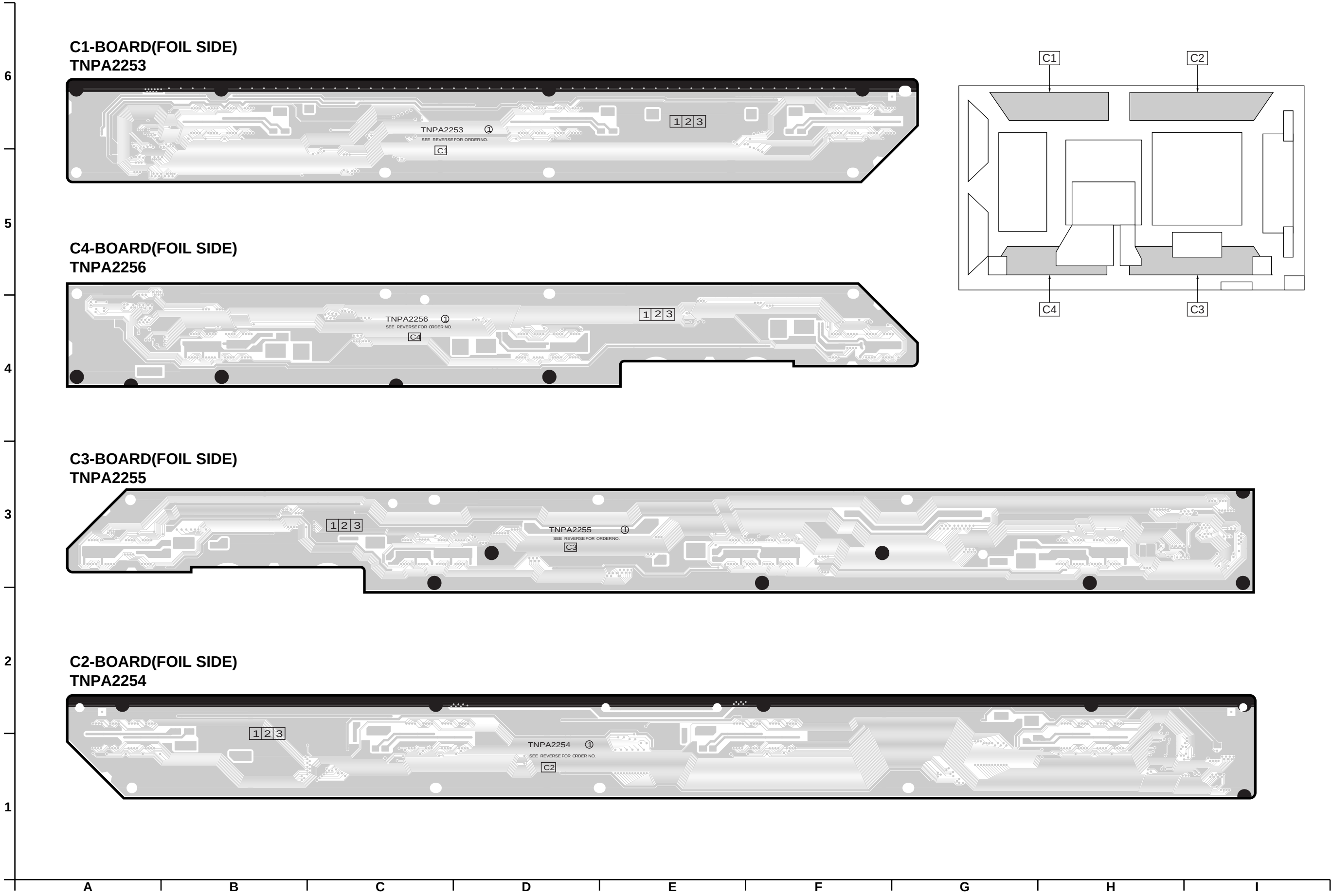
Parts Location

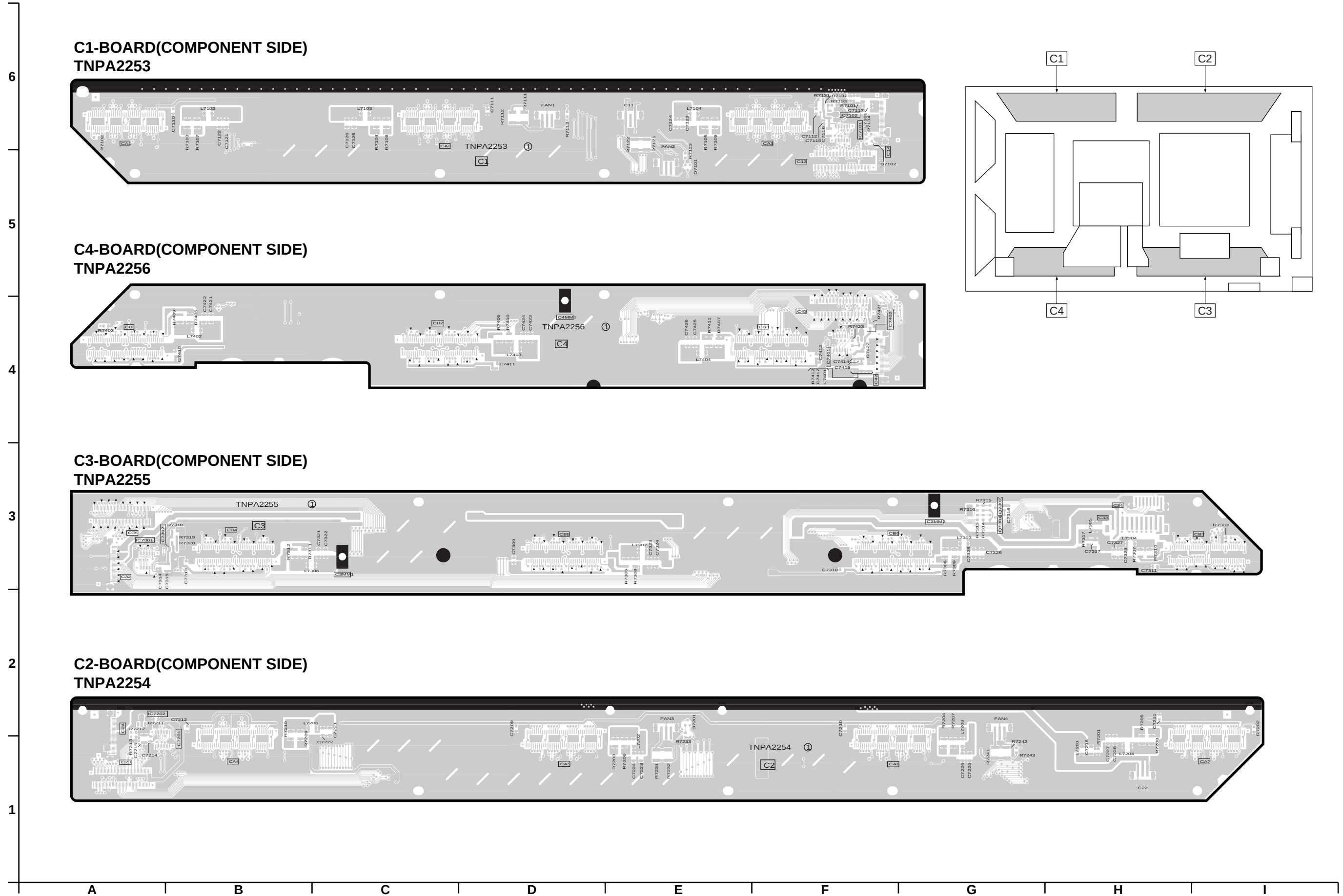
D-BOARD (COMPONENT SIDE)			
IC		IC9706	C-5
IC9003	H-3	IC9707	C-4
IC9007	G-4	IC9801	F-5
IC9008	G-4	IC9802	F-5
IC9009	G-5	IC9803	F-5
IC9010	H-3	IC9804	F-6
IC9012	H-3	IC9812	G-2
IC9013	G-4	IC9900	C-2
IC9013	G-4	IC9901	D-2
IC9014	D-3	IC9905	B-3
IC9018	G-3	TRANSISTOR	
IC9202	G-5	Q9200	D-4
IC9204	E-4	Q9700	D-5
IC9206	E-5	Q9704	G-4
IC9207	E-5	Q9705	C-3
IC9211	D-5	Q9706	B-3
IC9212	D-5	TP	
IC9215	D-4	TP40	G-5
IC9216	E-5	TPD1	F-4
IC9223	D-4	TPD2	F-5
IC9302	F-5	TPD3	F-4
IC9400	F-3	TPD4	F-4
IC9401	G-3	TPD5	E-3
IC9404	F-3	TPD6	E-3
IC9501	E-1	TPD7	C-5
IC9510	H-3	TPD10	G-5
IC9511	B-3	TPD11	G-4
IC9513	C-1	TPD12	G-4
IC9515	B-3		
IC9600	D-3		
IC9614	G-2		
IC9701	C-4		

D-BOARD(COMPONENT SIDE)
TZTNP02KNSR (42WP16A, B, E, H, R)
TZTNP01KNSC (42WP16C)



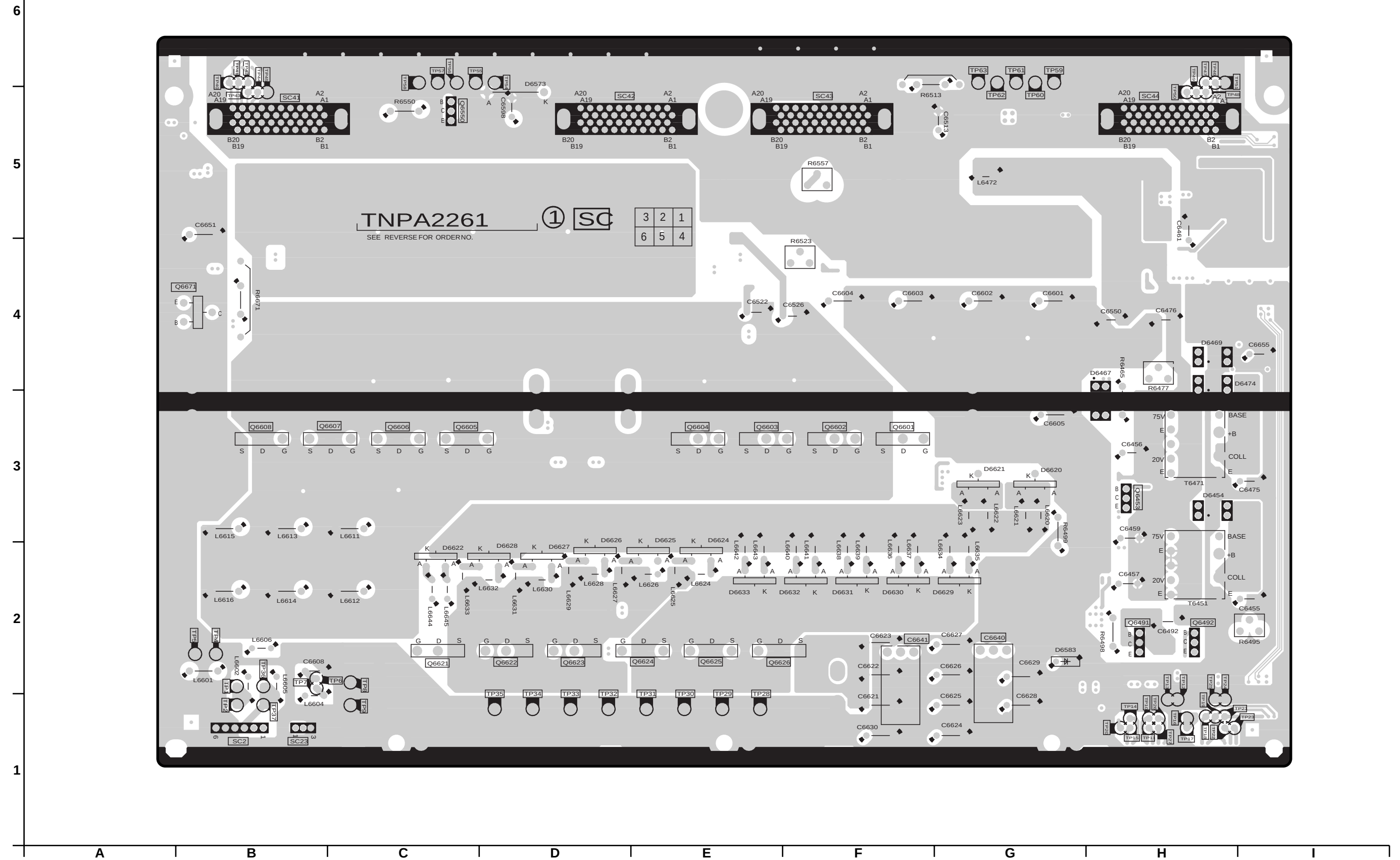
11.8. C1, C2, C3 and C4-Board

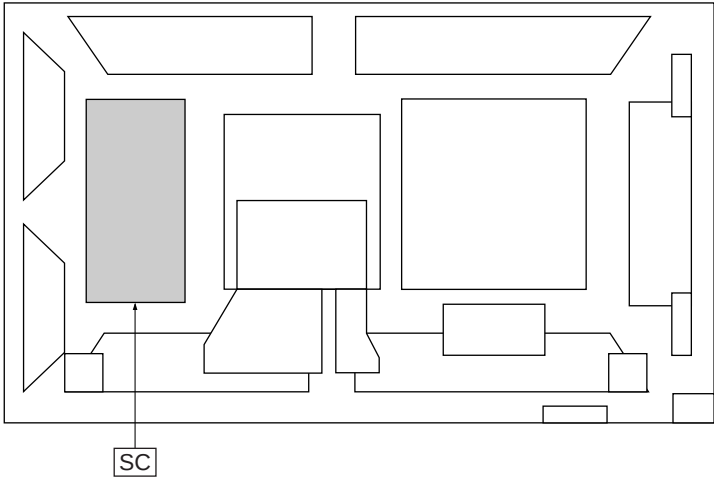




11.9. SC-Board

SC-BOARD(FOIL SIDE)
TNPA2261





Parts Location

SC-BOARD (FOIL SIDE)					
TRANSISTOR		TP			
Q6453	H-3	TP1	B-2	TP31	E-1
Q6491	H-2	TP2	B-1	TP32	D-1
Q6492	H-2	TP4	B-2	TP33	D-1
Q6550	C-5	TP5	B-2	TP34	D-1
Q6601	F-2	TP6	B-2	TP35	D-1
Q6602	F-2	TP7	B-2	TP36	B-2
Q6603	E-3	TP8	C-2	TP37	B-1
Q6604	E-3	TP9	C-1	TP40	B-6
Q6605	C-3	TP10	H-1	TP41	B-6
Q6606	C-3	TP11	H-1	TP42	B-6
Q6607	B-3	TP12	H-2	TP43	B-5
Q6608	B-3	TP13	H-2	TP44	B-5
Q6621	C-2	TP14	H-1	TP45	B-5
Q6622	D-2	TP15	H-1	TP46	H-6
Q6623	D-2	TP16	H-1	TP47	H-6
Q6624	E-2	TP17	H-1	TP48	H-5
Q6625	E-2	TP18	H-1	TP49	H-5
Q6626	E-2	TP19	H-1	TP50	H-5
Q6671	B-4	TP20	H-1	TP51	H-6
		TP21	H-1	TP54	D-6
		TP22	H-1	TP55	C-6
		TP23	H-1	TP56	C-6
		TP24	H-2	TP57	C-6
		TP25	H-2	TP58	C-6
		TP26	H-1	TP59	G-6
		TP27	H-1	TP60	G-5
		TP28	E-1	TP61	G-6
		TP29	E-1	TP62	G-5
		TP30	E-1	TP63	G-6

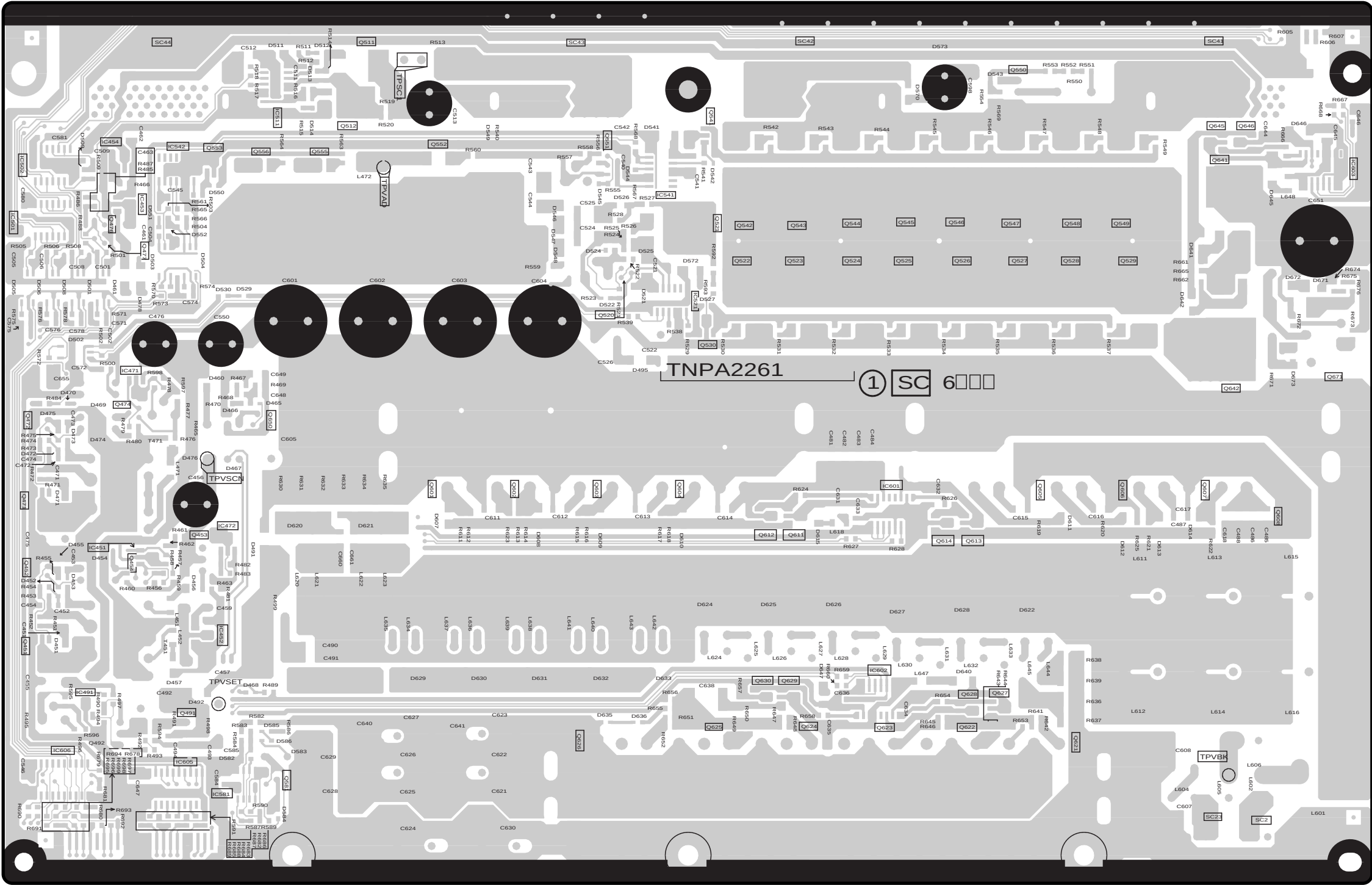
Parts Location

SC-BOARD (COMPONENT SIDE)					
IC					
IC6451	B-3	Q6512	C-5	Q6605	G-3
IC6452	C-2	Q6520	E-4	Q6606	H-3
IC6453	B-5	Q6521	E-5	Q6607	H-3
IC6464	B-5	Q6522	E-4	Q6608	H-3
IC6471	B-4	Q6523	F-4	Q6611	F-3
IC6472	C-3	Q6524	F-4	Q6612	F-3
IC6491	B-2	Q6525	F-4	Q6613	G-3
IC6501	B-5	Q6526	G-4	Q6614	F-3
IC6502	B-5	Q6527	G-4	Q6621	G-2
IC6511	C-5	Q6528	G-4	Q6622	G-2
IC6521	E-4	Q6529	H-4	Q6623	F-2
IC6541	E-5	Q6530	E-4	Q6624	F-2
IC6542	B-5	Q6541	E-5	Q6625	E-2
IC6581	C-2	Q6542	E-5	Q6626	E-2
IC6601	F-3	Q6543	F-5	Q6627	G-2
IC6602	F-2	Q6544	F-5	Q6628	G-2
IC6603	I-5	Q6545	F-5	Q6629	F-2
IC6605	B-2	Q6546	G-5	Q6630	F-2
IC6606	B-2	Q6547	G-5	Q6641	H-5
		Q6548	G-5	Q6642	H-4
		Q6549	H-5	Q6645	H-5
		Q6550	G-5	Q6646	H-5
		Q6551	E-5	Q6650	C-4
		Q6552	D-5	Q6671	I-4
		Q6553	C-5		
		Q6555	C-5		
		Q6556	C-5		
		Q6581	C-2		
		Q6601	D-3		
		Q6602	D-3		
		Q6603	E-3		
		Q6604	E-3		
TRANSISTOR				TP	
Q6451	B-2			TPSC	D-6
Q6452	B-3			TPVAD	C-5
Q6453	B-3			TPVBK	H-2
Q6454	B-3			TPVSCN	C-3
Q6471	B-4				
Q6472	B-4				
Q6474	B-4				
Q6476	B-5				
Q6491	B-2				
Q6511	C-6				

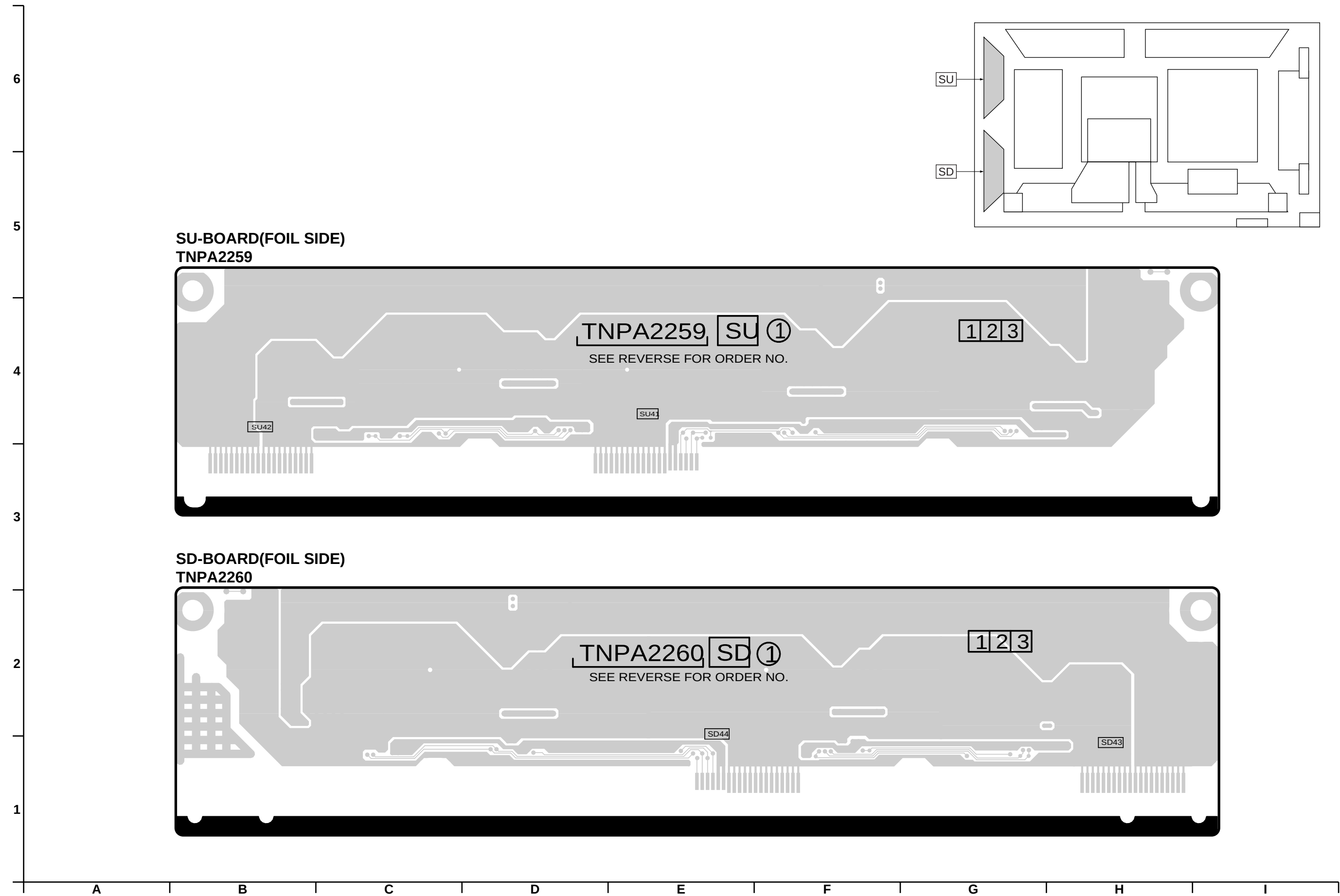
SC-BOARD(COMPONENT SIDE)
TNPA2261

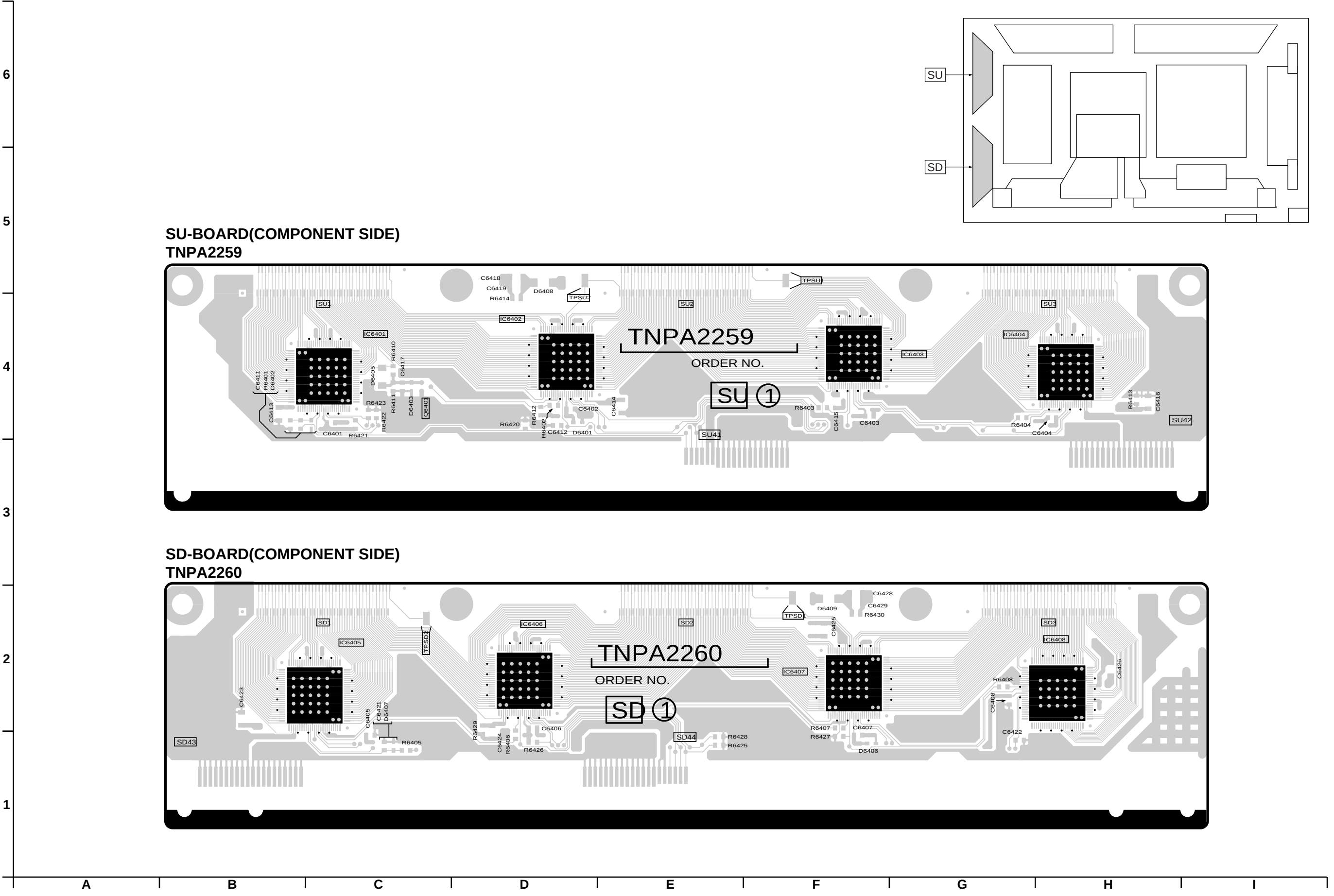
6
5
4
3
2
1

A B C D E F G H I



11.10. SU and SD-Board





6

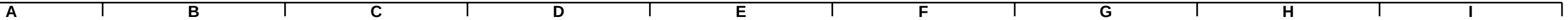
5

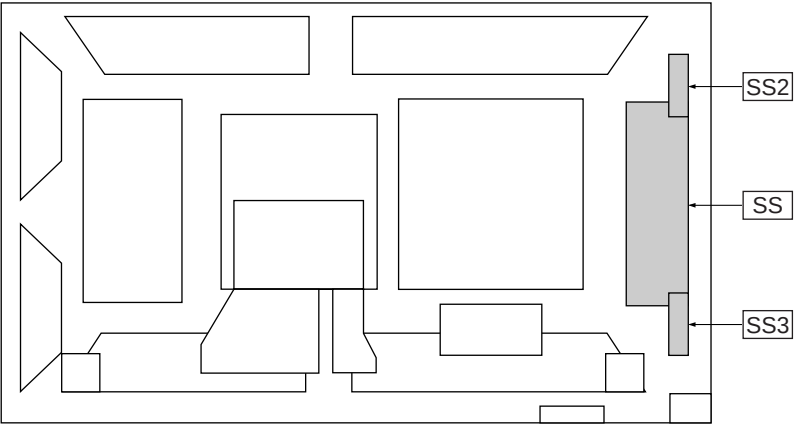


3



1



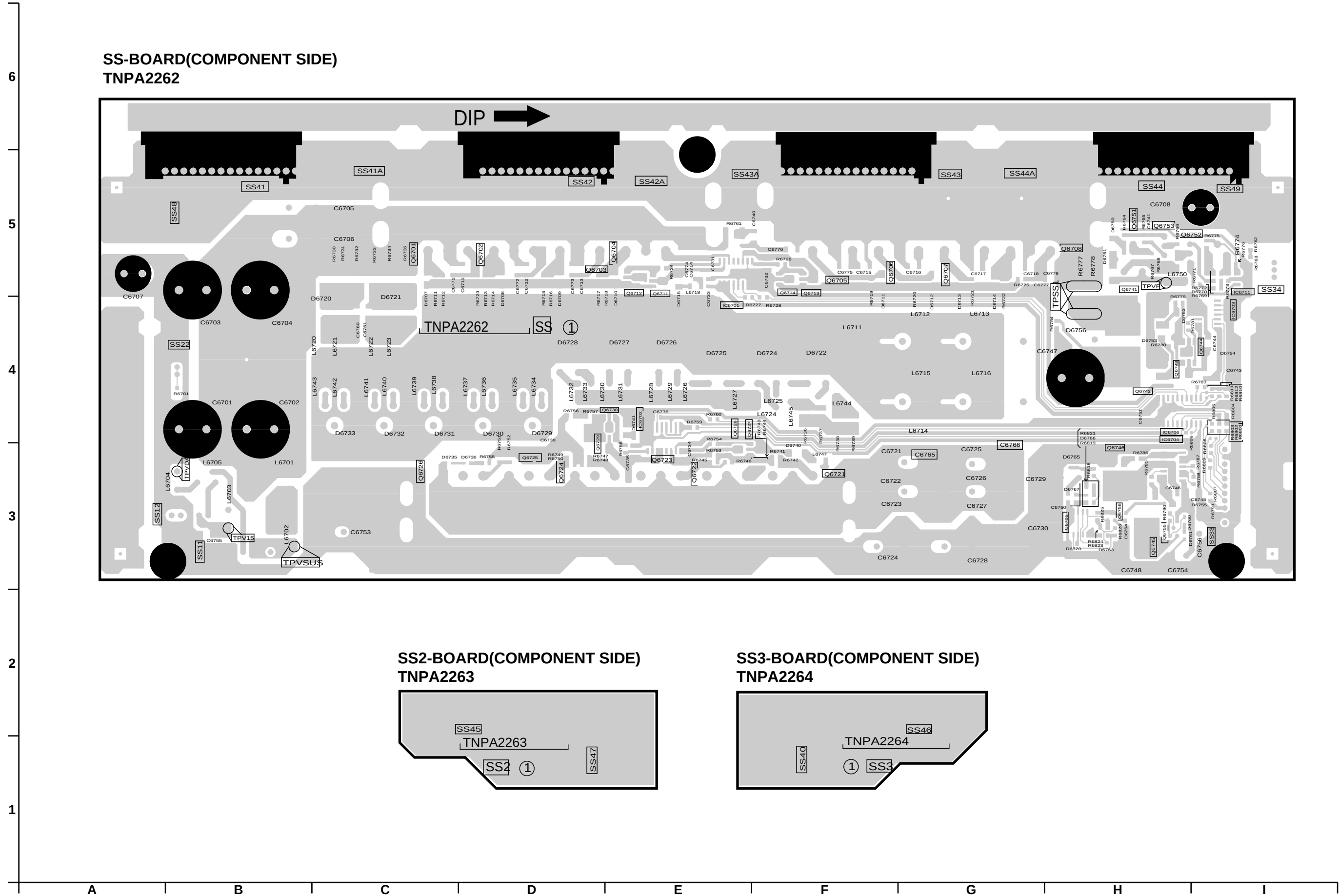


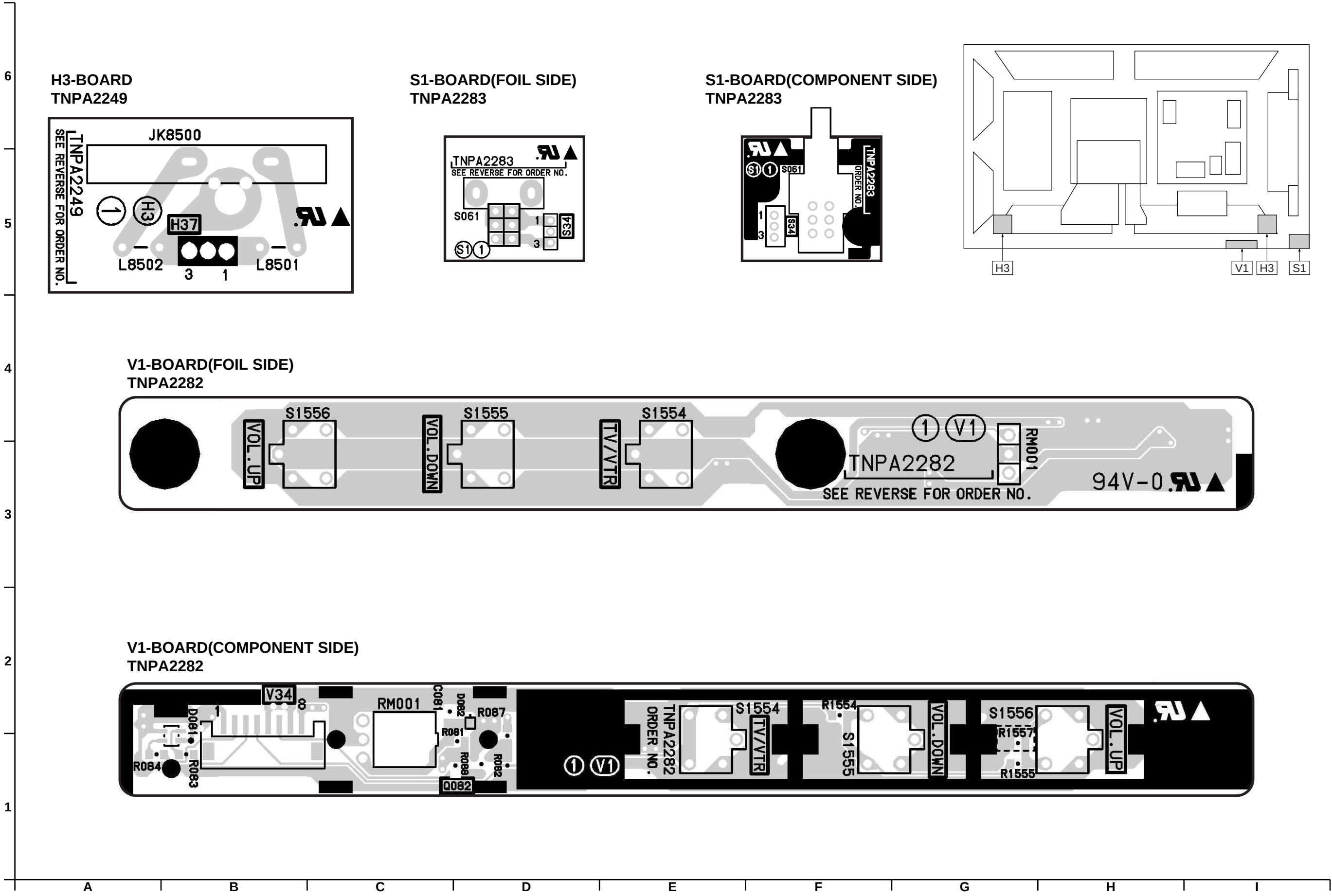
Parts Location

SS-BOARD (FOIL SIDE)					
TRANSISTOR		TP		TP18	B-2
Q6701	G-5	TP1	H-3	TP19	B-2
Q6702	F-5	TP2	H-3	TP20	B-2
Q6703	F-5	TP3	H-3	TP22	B-2
Q6704	F-5	TP4	H-3	TP23	B-2
Q6705	D-5	TP5	H-3	TP24	G-3
Q6706	D-5	TP6	H-3	TP25	G-3
Q6707	C-5	TP7	I-3	TP26	F-3
Q6708	C-5	TP8	H-3	TP27	F-3
Q6721	D-3	TP9	H-4	TP28	E-3
Q6722	E-3	TP10	H-4	TP29	E-3
Q6723	E-3	TP11	I-4	TP30	E-3
Q6724	F-3	TP12	I-4	TP31	D-3
Q6725	F-3	TP13	B-2		
Q6726	G-3	TP14	B-2		
Q6751	B-5	TP15	B-2		
Q6752	B-5	TP16	B-2		
Q6753	B-5	TP17	B-2		

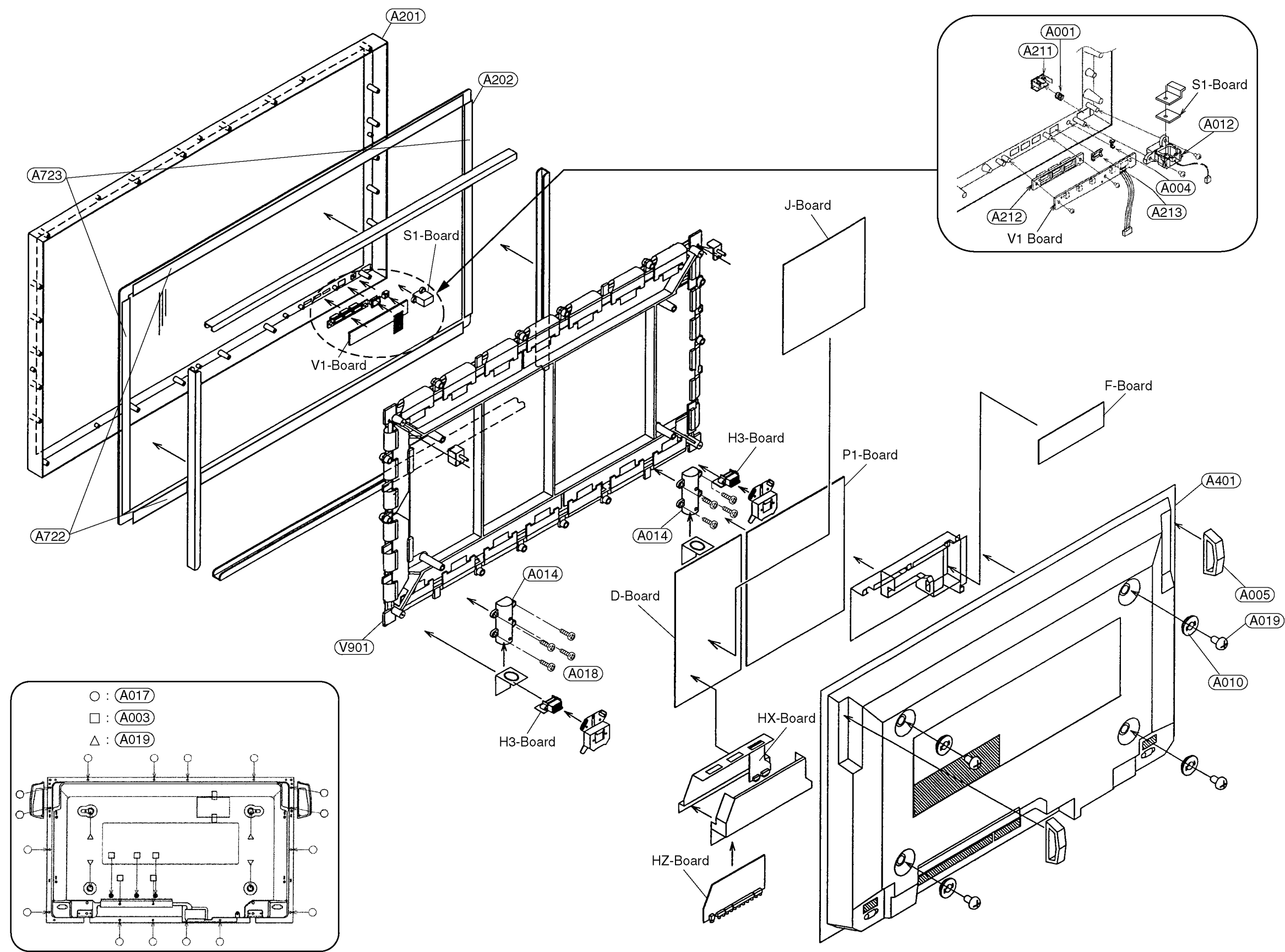
Parts Location

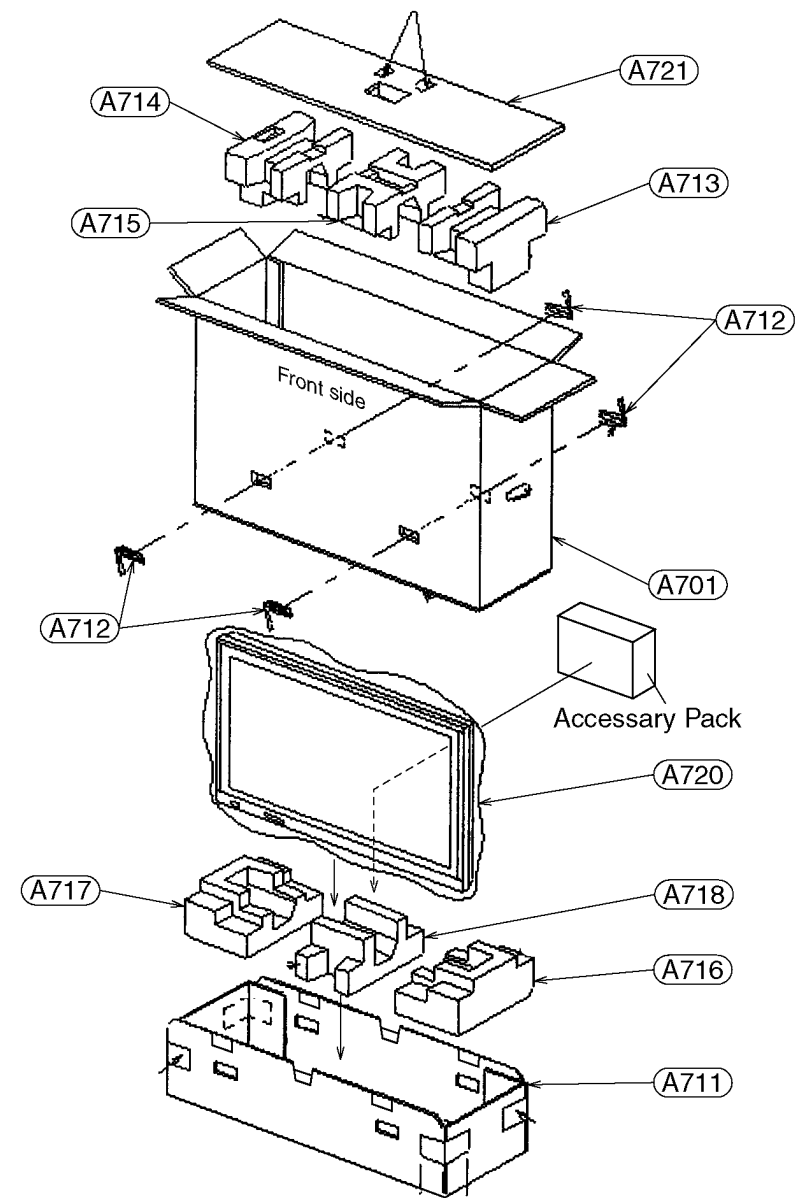
SS-BOARD (COMPONENT SIDE)					
IC		TRANSISTOR		Q6730	D-4
IC6704	H-3	Q6701	C-5	Q6741	H-5
IC6705	H-3	Q6702	D-5	Q6742	H-4
IC6706	H-4	Q6703	D-5	Q6743	H-4
IC6755	H-3	Q6704	D-5	Q6745	H-3
		Q6705	F-5	Q6746	H-3
		Q6706	F-5	Q6751	H-5
		Q6707	G-5	Q6752	H-2
		Q6708	H-5	Q6753	H-5
		Q6713	F-5	Q6756	H-3
		Q6714	F-5	TP	
		Q6721	F-3	TPSS	H-4
		Q6722	E-3	TPV15	B-3
		Q6723	E-3	TPVDA	B-3
		Q6724	D-3	TPVE	H-5
		Q6725	D-3	TPVSUS	B-3
		Q6726	C-3		
		Q6729	D-3		



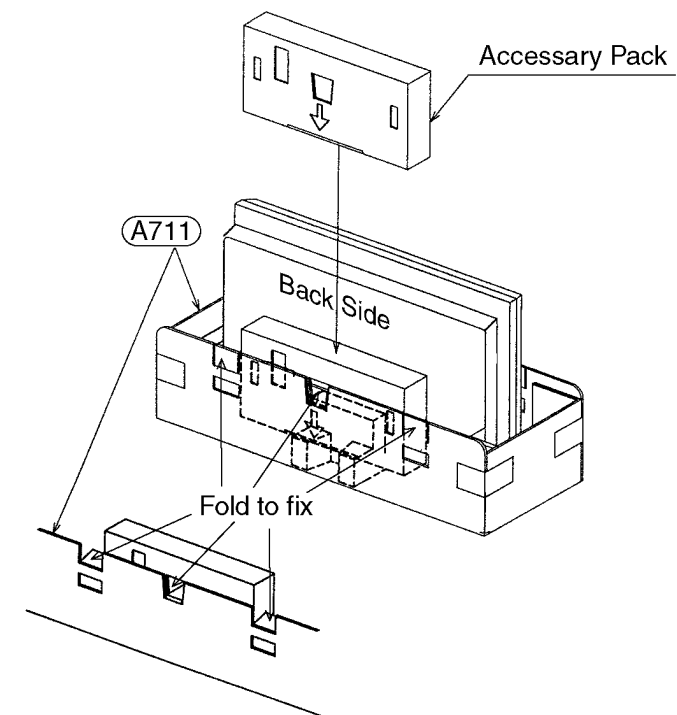
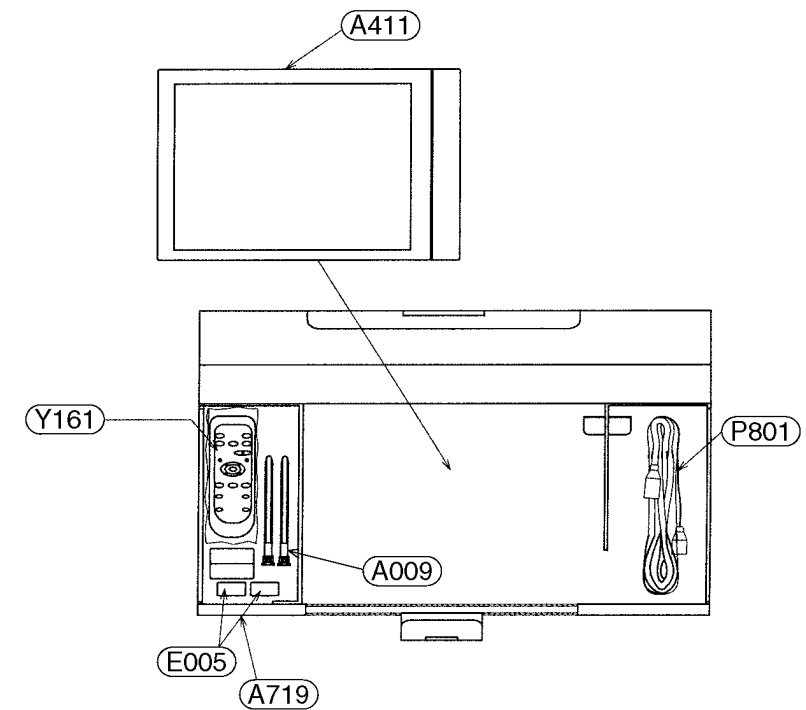


13 Mechanical Parts Location





•Accessory Pack



14 Mechanical Replacement Parts List

Loc. No.	Part No.	Description	Reference No.	Remarks
A001	72000661	SPRING, TESD031	TESD031	
A003	72000663	SCREW, THEL023Z	THEL023Z	
A004	72000664	LED PANEL, TKKC5105	TKKC5105	
A005	72000665	HANDLE, TKRA20501	TKRA20501	
A009	72001052	FIXING BAND, TMME187	TMME187	
A010	72001051	SPACER, TMMD006	TMMD006	
A012	72000672	POWER BUTTON BRACKET, TMWC006-1	TMWC006-1	
A014	72001053	STAND BRACKET, TXFMZ010JAS	TXFMZ010JAS	
A017	72001012	SCREW, XYF4+FL43FZ	XYF4+FL43FZ	
A018	72001017	SCREW, XYN5+C15	XYN5+C15	
A019	72000679	SCREW, XYN8+F20FZ	XYN8+F20FZ	
A201	72001029	ESCUTCHEON, TTEA0076	TTEA0076	42WP16A, B, E, H, R
A201	72001046	ESCUTCHEON, TTEA0077	TTEA0077	42WP16C
A202	72001020	FRONT GLASS, TKGA5066	TKGA5066	42WP16A, B, E, H, R
A202	72001042	FRONT GLASS, TKGA5067	TKGA5067	42WP16C
A211	72000708	POWER BUTTON, TBXA28205	TBXA28205	
A212	72000709	HINDGE BUTTON, TBXA28505A	TBXA28505A	
A213	72000710	REMOCON RECEIVER PANEL, TKPA43801	TKPA43801	
A401	72001030	REAR COVER, TTUA0483	TTUA0483	42WP16A, H, R
A401	72001038	REAR COVER, TTUA0504	TTUA0504	42WP16B, E
A401	72001047	REAR COVER, TTUA0489	TTUA0489	42WP16C
A411	72001406	FUN BAG, TQZC165	TQZC165	42WP16C
A411	72001024	FUN BAG, TQZC156	TQZC156	42WP16A, H, R
A411	72001032	FUN BAG, TQZC164	TQZC164	42WP16B, E
A701	72001023	CARTON BOX, TPCA95845	TPCA95845	42WP16A
A701	72001031	CARTON BOX, TPCA95846	TPCA95846	42WP16B
A701	72001039	CARTON BOX, TPCA95840	TPCA95840	42WP16E
A701	72001040	CARTON BOX, TPCA95844	TPCA95844	42WP16H
A701	72001041	CARTON BOX, TPCA95838	TPCA95838	42WP16R
A701	72001045	CARTON BOX, TPCA95839	TPCA95839	42WP16C
A711	72001054	CARTON BOX(BOTTOM), TPCA95901A	TPCA95901A	
A712	72000681	JOINT, TPD169487	TPD169487	
A713	72001055	CUSHION(UPPER RIGHT), TPDA0510-1	TPDA0510-1	
A714	72001056	CUSHION(UPPER LEFT), TPDA0511-1	TPDA0511-1	
A715	72000684	CUSHION(UPPER CENTER), TPDA0512	TPDA0512	
A716	72000685	CUSHION(BOTTOM RIGHT), TPDA0513	TPDA0513	
A717	72000686	CUSHION(BOTTOM LEFT), TPDA0514	TPDA0514	
A718	72001057	CUSHION(BOTTOM CENTER), TPDA0515-1	TPDA0515-1	
A719	72001059	PAPER BOX, TPDF0737	TPDF0737	
A720	72000689	PROTECT COVER, TPEH007-3	TPEH007-3	
A721	72001058	CUSHION, TPDF0596	TPDF0596	
A722	72001021	CUSHION, TMKG288	TMKG288	42WP16A, B, E, H, R
A722	72001043	CUSHION, TMKG250	TMKG250	42WP16C
A723	72001022	CUSHION, TMKG289	TMKG289	42WP16A, B, E, H, R
A723	72001044	CUSHION, TMKG251-1	TMKG251-1	42WP16C

Loc. No.	Part No.	Description	Reference No.	Remarks
E005	72001049	FERRITE CORE, J0KF00000018	J0KF00000018	
F801	72000743	FUSE, K5Y802B00001	K5Y802B00001	
P801	72000716	AC POWER CORD, K2CT3DH00007	K2CT3DH00007	42WP16B, H
P801	72000723	AC POWER CORD, K2CN3DH00001	K2CN3DH00001	42WP16R, E
P801	72000732	AC POWER CORD, K2CK3DH00007	K2CK3DH00007	42WP16C
P801	72000734	AC POWER CORD, K2CK3DH00002	K2CK3DH00002	42WP16A
P802	72000700	AC INLET, K2AH3H000018	K2AH3H000018	
V901	72001050	PLASMA DISPLAY PANEL, MC106W36P4	MC106W36P4	
Y101	72001025	INSTRUCTION BOOK(ENGLISH), TQZW158	TQZW158	42WP16A, C, H, R
Y101	72001033	INSTRUCTION BOOK(ENGLISH), TQZW163	TQZW163	42WP16B, E
Y102	72001026	INSTRUCTION BOOK(CHINESE), TQZW159	TQZW159	42WP16A, C, H, R
Y103	72001027	INSTRUCTION BOOK(ARABIAN), TQZW160	TQZW160	42WP16A, C, H, R
Y104	72001028	INSTRUCTION BOOK(RUSSIAN), TQZW161	TQZW161	42WP16A, C, H, R
Y105	72001034	INSTRUCTION BOOK(FRENCH), TQZW164	TQZW164	42WP16B, E
Y106	72001035	INSTRUCTION BOOK(GARMEN), TQZW165	TQZW165	42WP16B, E
Y107	72001036	INSTRUCTION BOOK(ITALIAN), TQZW166	TQZW166	42WP16B, E
Y108	72001037	INSTRUCTION BOOK(SPANISH), TQZW167	TQZW167	42WP16B, E
Y161	72000703	REMOTE CONTROL, EUR646527	EUR646527	

15 Replacement Parts List

15.1. Replacement Parts List Notes

Important Safety Notice

*Components identified by $\triangle$ mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer's specified parts.*

Abbreviation of part name and description

1. Resistor

Example:

ERD25TJ104 $\triangle$ 100KOHM, $\triangle$ 1/4W

Type Allowance

2. Capacitor

Example:

ECKF1H103ZF $\triangle$ 0.01UF, $\triangle$ 50V

Type Allowance

Type	Allowance
C : Carbon	F : $\pm 1\%$
F : Fuse	G : $\pm 2\%$
M : Metal Oxide Metal Film	J : $\pm 5\%$
S : Solid	K : $\pm 10\%$
W : Wire Wound	M : $\pm 20\%$

Type	Allowance
C : Ceramic	C : $\pm 0.25\text{pF}$
E : Electrolytic	D : $\pm 0.5\text{pF}$
P : Polyester	F : $\pm 1\text{pF}$
Polyprop ylene	G : $\pm 3\text{pF}$
T : Tantalum	J : $\pm 5\text{pF}$
	K : $\pm 10\text{pF}$
	L : $\pm 15\text{pF}$
	M : $\pm 20\text{pF}$
	P : +100%, -0%
	Z : +80%, -20%

15.2. Electrical Replacement Parts List

Loc. No.	Part No	Description	Reference No.	Remarks
C081	72000190	CAPACITOR, C 10UF, M, 6.3V	ECJ3XB0J106M	
C1001	72000224	CAPACITOR, C 0.1UF, Z, 16V	ECJ2VF1C104Z	
C1002	72000224	CAPACITOR, C 0.1UF, Z, 16V	ECJ2VF1C104Z	
C1003	72000907	CAPACITOR, E 47UF, 16V	EEVHB1C470	
C1004	72000224	CAPACITOR, C 0.1UF, Z, 16V	ECJ2VF1C104Z	
C1005	72000224	CAPACITOR, C 0.1UF, Z, 16V	ECJ2VF1C104Z	
C1006	72000775	CAPACITOR, E 1.5UF, 5.5V	EECS5R5V155	
C1007	72000227	CAPACITOR, C 33PF, J, 50V	ECJ1XC1H330J	
C1008	72000227	CAPACITOR, C 33PF, J, 50V	ECJ1XC1H330J	
C1009	72000224	CAPACITOR, C 0.1UF, Z, 16V	ECJ2VF1C104Z	
C1010	72000776	CAPACITOR, C 0.056UF, K, 50V	ECJ2XB1H563K	
C2312	72000191	CAPACITOR, C 0.01UF, Z, 50V	ECJ2VF1H103Z	
C2313	72000192	CAPACITOR, E 47UF, 50V	ECA1HHG470	
C2314	72000193	CAPACITOR, E 47UF, 16V	ECA1CHG470	
C2316	72000194	CAPACITOR, P 0.47UF, J, 50V	ECQV1H474JM	
C2317	72000194	CAPACITOR, P 0.47UF, J, 50V	ECQV1H474JM	
C2318	72000195	CAPACITOR, C 560PF, J, 50V	ECJ2XC1H561J	
C2319	72000195	CAPACITOR, C 560PF, J, 50V	ECJ2XC1H561J	
C2320	72000196	CAPACITOR, C 0.1UF, Z, 50V	ECJ2VF1H104Z	
C2321	72000196	CAPACITOR, C 0.1UF, Z, 50V	ECJ2VF1H104Z	
C2322	72000196	CAPACITOR, C 0.1UF, Z, 50V	ECJ2VF1H104Z	
C2323	72000908	CAPACITOR, E 220UF, 50V	ECA1HHG221	
C2324	72000196	CAPACITOR, C 0.1UF, Z, 50V	ECJ2VF1H104Z	
C2325	72000908	CAPACITOR, E 220UF, 50V	ECA1HHG221	
C2326	72000198	CAPACITOR, C 220PF, J, 50V	ECJ2XC1H221J	
C2327	72000198	CAPACITOR, C 220PF, J, 50V	ECJ2XC1H221J	
C2328	72000196	CAPACITOR, C 0.1UF, Z, 50V	ECJ2VF1H104Z	
C2329	72000196	CAPACITOR, C 0.1UF, Z, 50V	ECJ2VF1H104Z	
C2330	72000199	CAPACITOR, C 4700PF, K, 50V	ECJ2XB1H472K	
C2331	72000200	CAPACITOR, C 100PF, J, 50V	ECJ2XC1H101J	
C2332	72000199	CAPACITOR, C 4700PF, K, 50V	ECJ2XB1H472K	
C2333	72000200	CAPACITOR, C 100PF, J, 50V	ECJ2XC1H101J	
C2334	72000201	CAPACITOR, C 2.2UF, 16V	TCUY1C225KBM	
C2335	72000201	CAPACITOR, C 2.2UF, 16V	TCUY1C225KBM	
C2336	72000202	CAPACITOR, C 0.047UF, K, 50V	ECJ2XB1H473K	
C2337	72000202	CAPACITOR, C 0.047UF, K, 50V	ECJ2XB1H473K	
C2338	72000203	CAPACITOR, C 4.7UF, Z, 16V	ECJ3XF1C475Z	
C2339	72000203	CAPACITOR, C 4.7UF, Z, 16V	ECJ3XF1C475Z	
C2340	72000196	CAPACITOR, C 0.1UF, Z, 50V	ECJ2VF1H104Z	

Loc. No.	Part No	Description	Reference No.	Remarks
C2341	72000196	CAPACITOR, C 0.1UF, Z, 50V	ECJ2VF1H104Z	
C2342	72000196	CAPACITOR, C 0.1UF, Z, 50V	ECJ2VF1H104Z	
C2343	72000196	CAPACITOR, C 0.1UF, Z, 50V	ECJ2VF1H104Z	
C2344	72000204	CAPACITOR, E 1000UF, 20V	EEUGZ1D102SB	
C2345	72000204	CAPACITOR, E 1000UF, 20V	EEUGZ1D102SB	
C2346	72000204	CAPACITOR, E 1000UF, 20V	EEUGZ1D102SB	
C2347	72000204	CAPACITOR, E 1000UF, 20V	EEUGZ1D102SB	
C2348	72000191	CAPACITOR, C 0.01UF, Z, 50V	ECJ2VF1H103Z	
C2349	72000203	CAPACITOR, C 4.7UF, Z, 16V	ECJ3XF1C475Z	
C2350	72000203	CAPACITOR, C 4.7UF, Z, 16V	ECJ3XF1C475Z	
C2417	72000203	CAPACITOR, C 4.7UF, Z, 16V	ECJ3XF1C475Z	
C2419	72000212	CAPACITOR, E 10UF, 16V	EEVHB1C100	
C2422	72000203	CAPACITOR, C 4.7UF, Z, 16V	ECJ3XF1C475Z	
C2423	72000205	CAPACITOR, C 0.01UF, K, 50V	ECJ2XB1H103K	
C2426	72000209	CAPACITOR, C 0.015UF, K, 50V	ECJ2XB1H153K	
C2427	72000212	CAPACITOR, E 10UF, 16V	EEVHB1C100	
C2429	72000912	CAPACITOR, E 100UF, 16V	ECA1CHG101	
C2431	72000191	CAPACITOR, C 0.01UF, Z, 50V	ECJ2VF1H103Z	
C2433	72000215	CAPACITOR, C 0.039UF, K, 50V	ECJ2XB1H393K	
C2434	72000216	CAPACITOR, C 0.022UF, K, 50V	ECJ2XB1H223K	
C2435	72000205	CAPACITOR, C 0.01UF, K, 50V	ECJ2XB1H103K	
C2436	72000211	CAPACITOR, C 1UF, 16V	TCUY1C105KBM	
C2437	72000912	CAPACITOR, E 100UF, 16V	ECA1CHG101	
C2438	72000912	CAPACITOR, E 100UF, 16V	ECA1CHG101	
C2440	72000217	CAPACITOR, C 4.7UF, 16V	TCUY1C475ZFM	
C2441	72000217	CAPACITOR, C 4.7UF, 16V	TCUY1C475ZFM	
C2442	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C2450	72000212	CAPACITOR, E 10UF, 16V	EEVHB1C100	
C2451	72000218	CAPACITOR, E 4.7UF, 25V	EEVHB1E4R7	
C2452	72000219	CAPACITOR, C 5600PF, K, 50V	ECJ2XB1H562K	
C2453	72000196	CAPACITOR, C 0.1UF, Z, 50V	ECJ2VF1H104Z	
C2454	72000218	CAPACITOR, E 4.7UF, 25V	EEVHB1E4R7	
C2455	72000907	CAPACITOR, E 47UF, 16V	EEVHB1C470	
C2457	72000218	CAPACITOR, E 4.7UF, 25V	EEVHB1E4R7	
C2458	72000220	CAPACITOR, C 1000PF, J, 50V	ECJ2XC1H102J	
C2459	72000211	CAPACITOR, C 1UF, 16V	TCUY1C105KBM	
C2460	72000202	CAPACITOR, C 0.047UF, K, 50V	ECJ2XB1H473K	
C2461	72000220	CAPACITOR, C 1000PF, J, 50V	ECJ2XC1H102J	
C2463	72000202	CAPACITOR, C 0.047UF, K, 50V	ECJ2XB1H473K	

Loc. No.	Part No	Description	Reference No.	Remarks
C2466	72000211	CAPACITOR, C 1UF, 16V	TCUY1C105KBM	
C2467	72000211	CAPACITOR, C 1UF, 16V	TCUY1C105KBM	
C2480	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C2484	72000191	CAPACITOR, C 0.01UF, Z, 50V	ECJ2VF1H103Z	
C3001	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3002	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3003	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3004	72000191	CAPACITOR, C 0.01UF, Z, 50V	ECJ2VF1H103Z	
C3005	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3006	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3007	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3008	72000191	CAPACITOR, C 0.01UF, Z, 50V	ECJ2VF1H103Z	
C3009	72000191	CAPACITOR, C 0.01UF, Z, 50V	ECJ2VF1H103Z	
C3010	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3011	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3012	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3013	72000191	CAPACITOR, C 0.01UF, Z, 50V	ECJ2VF1H103Z	
C3014	72000191	CAPACITOR, C 0.01UF, Z, 50V	ECJ2VF1H103Z	
C3015	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3016	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3017	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3018	72000191	CAPACITOR, C 0.01UF, Z, 50V	ECJ2VF1H103Z	
C3019	72000777	CAPACITOR, E 47UF, 16V	ECEA1CKA470	
C3020	72000224	CAPACITOR, C 0.1UF, Z, 16V	ECJ2VF1C104Z	
C3021	72000907	CAPACITOR, E 47UF, 16V	EEVHB1C470	
C3022	72000196	CAPACITOR, C 0.1UF, Z, 50V	ECJ2VF1H104Z	
C3023	72000907	CAPACITOR, E 47UF, 16V	EEVHB1C470	
C3024	72000196	CAPACITOR, C 0.1UF, Z, 50V	ECJ2VF1H104Z	
C3028	72000191	CAPACITOR, C 0.01UF, Z, 50V	ECJ2VF1H103Z	
C3029	72000907	CAPACITOR, E 47UF, 16V	EEVHB1C470	
C3030	72000191	CAPACITOR, C 0.01UF, Z, 50V	ECJ2VF1H103Z	
C3031	72000191	CAPACITOR, C 0.01UF, Z, 50V	ECJ2VF1H103Z	
C3032	72000907	CAPACITOR, E 47UF, 16V	EEVHB1C470	
C3033	72000224	CAPACITOR, C 0.1UF, Z, 16V	ECJ2VF1C104Z	
C3034	72000224	CAPACITOR, C 0.1UF, Z, 16V	ECJ2VF1C104Z	
C3035	72000224	CAPACITOR, C 0.1UF, Z, 16V	ECJ2VF1C104Z	
C3036	72000191	CAPACITOR, C 0.01UF, Z, 50V	ECJ2VF1H103Z	
C3037	72000907	CAPACITOR, E 47UF, 16V	EEVHB1C470	
C3038	72000907	CAPACITOR, E 47UF, 16V	EEVHB1C470	
C3039	72000907	CAPACITOR, E 47UF, 16V	EEVHB1C470	

Loc. No.	Part No	Description	Reference No.	Remarks
C3042	72000907	CAPACITOR, E 47UF, 16V	EEVHB1C470	
C3043	72000203	CAPACITOR, C 4.7UF, Z, 16V	ECJ3XF1C475Z	
C3044	72000191	CAPACITOR, C 0.01UF, Z, 50V	ECJ2VF1H103Z	
C3045	72000203	CAPACITOR, C 4.7UF, Z, 16V	ECJ3XF1C475Z	
C3046	72000203	CAPACITOR, C 4.7UF, Z, 16V	ECJ3XF1C475Z	
C3047	72000191	CAPACITOR, C 0.01UF, Z, 50V	ECJ2VF1H103Z	
C3048	72000191	CAPACITOR, C 0.01UF, Z, 50V	ECJ2VF1H103Z	
C3049	72000778	CAPACITOR, C 0.1UF, K, 16V	ECJ1VB1C104K	
C3050	72000778	CAPACITOR, C 0.1UF, K, 16V	ECJ1VB1C104K	
C3301	72000222	CAPACITOR, C 0.1UF, K, 25V	ECJ2XB1E104K	
C3302	72000222	CAPACITOR, C 0.1UF, K, 25V	ECJ2XB1E104K	
C3303	72000907	CAPACITOR, E 47UF, 16V	EEVHB1C470	
C3304	72000907	CAPACITOR, E 47UF, 16V	EEVHB1C470	
C3305	72000191	CAPACITOR, C 0.01UF, Z, 50V	ECJ2VF1H103Z	
C3306	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3307	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3309	72000224	CAPACITOR, C 0.1UF, Z, 16V	ECJ2VF1C104Z	
C3310	72000907	CAPACITOR, E 47UF, 16V	EEVHB1C470	
C3311	72000224	CAPACITOR, C 0.1UF, Z, 16V	ECJ2VF1C104Z	
C3312	72000907	CAPACITOR, E 47UF, 16V	EEVHB1C470	
C3313	72000907	CAPACITOR, E 47UF, 16V	EEVHB1C470	
C3314	72000224	CAPACITOR, C 0.1UF, Z, 16V	ECJ2VF1C104Z	
C3351	72000190	CAPACITOR, C 10UF, M, 6.3V	ECJ3XB0J106M	
C3352	72000190	CAPACITOR, C 10UF, M, 6.3V	ECJ3XB0J106M	
C3353	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3354	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3355	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3356	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3357	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3358	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3359	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3360	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3361	72000907	CAPACITOR, E 47UF, 16V	EEVHB1C470	
C3362	72000224	CAPACITOR, C 0.1UF, Z, 16V	ECJ2VF1C104Z	
C3363	72000907	CAPACITOR, E 47UF, 16V	EEVHB1C470	
C3364	72000224	CAPACITOR, C 0.1UF, Z, 16V	ECJ2VF1C104Z	
C3365	72000191	CAPACITOR, C 0.01UF, Z, 50V	ECJ2VF1H103Z	
C3404	72000224	CAPACITOR, C 0.1UF, Z, 16V	ECJ2VF1C104Z	
C3405	72000907	CAPACITOR, E 47UF, 16V	EEVHB1C470	
C3406	72000224	CAPACITOR, C 0.1UF, Z, 16V	ECJ2VF1C104Z	

Loc. No.	Part No	Description	Reference No.	Remarks
C3407	72000907	CAPACITOR, E 47UF, 16V	EEVHB1C470	
C3409	72000224	CAPACITOR, C 0.1UF, Z, 16V	ECJ2VF1C104Z	
C3410	72000907	CAPACITOR, E 47UF, 16V	EEVHB1C470	
C3501	72000803	CAPACITOR, C 0.1UF, Z, 16V	ECJ1VF1C104Z	
C3502	72000299	CAPACITOR, E 22UF, 25V	EEVHP1E220	
C3503	72000835	CAPACITOR, E 10UF, 25V	EEVHP1E100	
C3504	72000835	CAPACITOR, E 10UF, 25V	EEVHP1E100	
C3505	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3506	72000229	CAPACITOR, C 6.8UF, 6.3V	TCUY0J685MBM	
C3507	72000224	CAPACITOR, C 0.1UF, Z, 16V	ECJ2VF1C104Z	
C3509	72000803	CAPACITOR, C 0.1UF, Z, 16V	ECJ1VF1C104Z	
C3510	72000803	CAPACITOR, C 0.1UF, Z, 16V	ECJ1VF1C104Z	
C3511	72000803	CAPACITOR, C 0.1UF, Z, 16V	ECJ1VF1C104Z	
C3512	72000803	CAPACITOR, C 0.1UF, Z, 16V	ECJ1VF1C104Z	
C3516	72000907	CAPACITOR, E 47UF, 16V	EEVHB1C470	
C3517	72000907	CAPACITOR, E 47UF, 16V	EEVHB1C470	
C3518	72000907	CAPACITOR, E 47UF, 16V	EEVHB1C470	
C3520	72000191	CAPACITOR, C 0.01UF, Z, 50V	ECJ2VF1H103Z	
C3521	72000907	CAPACITOR, E 47UF, 16V	EEVHB1C470	
C3523	72000907	CAPACITOR, E 47UF, 16V	EEVHB1C470	
C3524	72000191	CAPACITOR, C 0.01UF, Z, 50V	ECJ2VF1H103Z	
C3529	72000190	CAPACITOR, C 10UF, M, 6.3V	ECJ3XB0J106M	
C3530	72000190	CAPACITOR, C 10UF, M, 6.3V	ECJ3XB0J106M	
C3531	72000190	CAPACITOR, C 10UF, M, 6.3V	ECJ3XB0J106M	
C3533	72000190	CAPACITOR, C 10UF, M, 6.3V	ECJ3XB0J106M	
C3534	72000190	CAPACITOR, C 10UF, M, 6.3V	ECJ3XB0J106M	
C3542	72000224	CAPACITOR, C 0.1UF, Z, 16V	ECJ2VF1C104Z	
C3544	72000907	CAPACITOR, E 47UF, 16V	EEVHB1C470	
C3550	72000191	CAPACITOR, C 0.01UF, Z, 50V	ECJ2VF1H103Z	
C3551	72000907	CAPACITOR, E 47UF, 16V	EEVHB1C470	
C3561	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3562	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3591	72000913	CAPACITOR, C 1UF, 16V	TCUY1C105ZFN	
C3592	72000913	CAPACITOR, C 1UF, 16V	TCUY1C105ZFN	
C3593	72000226	CAPACITOR, C 0.1UF, Z, 25V	ECJ2VF1E104Z	
C3594	72000913	CAPACITOR, C 1UF, 16V	TCUY1C105ZFN	
C3595	72000913	CAPACITOR, C 1UF, 16V	TCUY1C105ZFN	
C3700	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3701	72000778	CAPACITOR, C 0.1UF, K, 16V	ECJ1VB1C104K	
C3702	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	

Loc. No.	Part No	Description	Reference No.	Remarks
C3703	72000907	CAPACITOR, E 47UF, 16V	EEVHB1C470	
C3704	72000778	CAPACITOR, C 0.1UF, K, 16V	ECJ1VB1C104K	
C3706	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3708	72000832	CAPACITOR, E 220UF, 4V	EEVHB0G221	
C3709	72000300	CAPACITOR, C 3.3UF, 6.3V	TCUY0J335MBM	
C3710	72000803	CAPACITOR, C 0.1UF, Z, 16V	ECJ1VF1C104Z	
C3711	72000803	CAPACITOR, C 0.1UF, Z, 16V	ECJ1VF1C104Z	
C3712	72000803	CAPACITOR, C 0.1UF, Z, 16V	ECJ1VF1C104Z	
C3713	72000803	CAPACITOR, C 0.1UF, Z, 16V	ECJ1VF1C104Z	
C3714	72000301	CAPACITOR, E 100UF, 6.3V	EEVHB0J101	
C3715	72000832	CAPACITOR, E 220UF, 4V	EEVHB0G221	
C3716	72000301	CAPACITOR, E 100UF, 6.3V	EEVHB0J101	
C3717	72000907	CAPACITOR, E 47UF, 16V	EEVHB1C470	
C3718	72000907	CAPACITOR, E 47UF, 16V	EEVHB1C470	
C3723	72000907	CAPACITOR, E 47UF, 16V	EEVHB1C470	
C3726	72000224	CAPACITOR, C 0.1UF, Z, 16V	ECJ2VF1C104Z	
C3727	72000190	CAPACITOR, C 10UF, M, 6.3V	ECJ3XB0J106M	
C3728	72000190	CAPACITOR, C 10UF, M, 6.3V	ECJ3XB0J106M	
C3729	72000919	CAPACITOR, C 470PF, K, 50V	ECJ2XB1H471K	
C3801	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3802	72000907	CAPACITOR, E 47UF, 16V	EEVHB1C470	
C3803	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3804	72000808	CAPACITOR, C 47PF, J, 50V	ECJ1XC1H470J	
C3805	72000807	CAPACITOR, C 22PF, J, 50V	ECJ1XC1H220J	
C3806	72000809	CAPACITOR, C 68PF, J, 50V	ECJ1XC1H680J	
C3808	72000299	CAPACITOR, E 22UF, 25V	EEVHP1E220	
C3809	72000300	CAPACITOR, C 3.3UF, 6.3V	TCUY0J335MBM	
C3810	72000834	CAPACITOR, E 22UF, 6.3V	EEVHB0J220	
C3812	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3815	72000907	CAPACITOR, E 47UF, 16V	EEVHB1C470	
C3816	72000835	CAPACITOR, E 10UF, 25V	EEVHP1E100	
C3817	72000300	CAPACITOR, C 3.3UF, 6.3V	TCUY0J335MBM	
C3818	72000799	CAPACITOR, C 0.01UF, K, 50V	ECJ1VB1H103K	
C3819	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3820	72000803	CAPACITOR, C 0.1UF, Z, 16V	ECJ1VF1C104Z	
C3821	72000799	CAPACITOR, C 0.01UF, K, 50V	ECJ1VB1H103K	
C3823	72000301	CAPACITOR, E 100UF, 6.3V	EEVHB0J101	
C3824	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3825	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3826	72000803	CAPACITOR, C 0.1UF, Z, 16V	ECJ1VF1C104Z	

Loc. No.	Part No	Description	Reference No.	Remarks
C3828	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3829	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3830	72000806	CAPACITOR, C 18PF, J, 50V	ECJ1XC1H180J	
C3831	72000806	CAPACITOR, C 18PF, J, 50V	ECJ1XC1H180J	
C3832	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3833	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3834	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3835	72000300	CAPACITOR, C 3.3UF, 6.3V	TCUY0J335MBM	
C3836	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3837	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3838	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3840	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3841	72000300	CAPACITOR, C 3.3UF, 6.3V	TCUY0J335MBM	
C3842	72000778	CAPACITOR, C 0.1UF, K, 16V	ECJ1VB1C104K	
C3843	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3844	72000833	CAPACITOR, E 1500UF, 6.3V	EEVHB0J152P	
C3845	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3846	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3848	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3849	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3850	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3852	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3853	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3854	72000802	CAPACITOR, C 0.8PF, J, 50V	ECJ1VC1H080C	
C3855	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3856	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3857	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3858	72000832	CAPACITOR, E 220UF, 4V	EEVHB0G221	
C3859	72000833	CAPACITOR, E 1500UF, 6.3V	EEVHB0J152P	
C3860	72000833	CAPACITOR, E 1500UF, 6.3V	EEVHB0J152P	
C3861	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3862	72000799	CAPACITOR, C 0.01UF, K, 50V	ECJ1VB1H103K	
C3863	72000300	CAPACITOR, C 3.3UF, 6.3V	TCUY0J335MBM	
C3864	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3865	72000778	CAPACITOR, C 0.1UF, K, 16V	ECJ1VB1C104K	
C3866	72000300	CAPACITOR, C 3.3UF, 6.3V	TCUY0J335MBM	
C3867	72000804	CAPACITOR, C 0.01UF, Z, 50V	ECJ1VF1H103Z	
C3868	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3869	72000227	CAPACITOR, C 33PF, J, 50V	ECJ1XC1H330J	
C3870	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	

Loc. No.	Part No	Description	Reference No.	Remarks
C3871	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3872	72000300	CAPACITOR, C 3.3UF, 6.3V	TCUY0J335MBM	
C3873	72000778	CAPACITOR, C 0.1UF, K, 16V	ECJ1VB1C104K	
C3874	72000799	CAPACITOR, C 0.01UF, K, 50V	ECJ1VB1H103K	
C3875	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3876	72000798	CAPACITOR, C 1000PF, K, 50V	ECJ1VB1H102K	
C3877	72000778	CAPACITOR, C 0.1UF, K, 16V	ECJ1VB1C104K	
C3878	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3879	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3880	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3881	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3882	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3883	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3884	72000800	CAPACITOR, C 0.15UF, K, 50V	ECJ1VB1H153K	
C3885	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3886	72000300	CAPACITOR, C 3.3UF, 6.3V	TCUY0J335MBM	
C3887	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3888	72000805	CAPACITOR, C 100PF, J, 50V	ECJ1XC1H101J	
C3889	72000801	CAPACITOR, C 4700PF, K, 50V	ECJ1VB1H472K	
C3890	72000190	CAPACITOR, C 10UF, M, 6.3V	ECJ3XB0J106M	
C3891	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3892	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3893	72000300	CAPACITOR, C 3.3UF, 6.3V	TCUY0J335MBM	
C3894	72000832	CAPACITOR, E 220UF, 4V	EEVHB0G221	
C3896	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3897	72000809	CAPACITOR, C 68PF, J, 50V	ECJ1XC1H680J	
C3898	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C3899	72000227	CAPACITOR, C 33PF, J, 50V	ECJ1XC1H330J	
C401	72000230	CAPACITOR, C 2200PF,	ECKDNA222ME	
C402	72000230	CAPACITOR, C 2200PF,	ECKDNA222ME	
C404	72000230	CAPACITOR, C 2200PF,	ECKDNA222ME	
C405	72000271	CAPACITOR, P 1UF, J, 630V	ECQE6105JF	
C406	72000794	CAPACITOR, E 100UF, 50V	ECA1HHG101	
C407	72000794	CAPACITOR, E 100UF, 50V	ECA1HHG101	
C408	72000254	CAPACITOR, P 2700PF, J, 50V	ECQB1H272JF	
C409	72000231	CAPACITOR, P 0.047UF, J, 50V	ECQB1H473JF	
C410	72000248	CAPACITOR, C 1000PF, K, 2KV	ECKD3D102KBP	
C411	72000231	CAPACITOR, P 0.047UF, J, 50V	ECQB1H473JF	
C412	72000231	CAPACITOR, P 0.047UF, J, 50V	ECQB1H473JF	
C413	72000817	CAPACITOR, C 100PF, K, 2KV	ECKD3D101KBP	

Loc. No.	Part No	Description	Reference No.	Remarks
C414	72000795	CAPACITOR, E 470UF, 50V	ECA1HHG471	
C415	72000236	CAPACITOR, E 330UF, 450V	EETHC2W331L	
C416	72000231	CAPACITOR, P 0.047UF, J, 50V	ECQB1H473JF	
C417	72000236	CAPACITOR, E 330UF, 450V	EETHC2W331L	
C418	72000271	CAPACITOR, P 1UF, J, 630V	ECQE6105JF	
C419	72000235	CAPACITOR, C 1000PF, K, 1KV	ECKD3A102KBP	
C420	72000235	CAPACITOR, C 1000PF, K, 1KV	ECKD3A102KBP	
C421	72000235	CAPACITOR, C 1000PF, K, 1KV	ECKD3A102KBP	
C423	72000237	CAPACITOR, P 0.068UF, M, 250V	ECQU2A683MN	
C424	72000238	CAPACITOR, E 470UF, 25V	EEUFC1E471	
C425	72000821	CAPACITOR, P 0.47UF, K, 400V	ECQE4474JF	
C426	72000821	CAPACITOR, P 0.47UF, K, 400V	ECQE4474JF	
C427	72000239	CAPACITOR, E 22UF, 450V	ECA2WHG220	
C428	72000240	CAPACITOR, C 3900PF, K, 2KV	ECKD3D392KBP	
C430	72000241	CAPACITOR, P 0.1UF, K, 1KV	ECQE10104KF	
C431	72000243	CAPACITOR, E 22UF, 50V	ECA1HHG220	
C432	72000244	CAPACITOR, P 0.1UF, J, 50V	ECQV1H104JM	
C433	72000245	CAPACITOR, E 47UF, 25V	ECA1EHG470	
C434	72000816	CAPACITOR, C 820PF, K, 500V	ECKD2H821KB7	
C435	72000820	CAPACITOR, P 1UF, K, 400V	ECQE4105JF	
C436	72000820	CAPACITOR, P 1UF, K, 400V	ECQE4105JF	
C437	72000234	CAPACITOR, C 100PF, K, 1KV	ECKD3A101KBP	
C438	72000244	CAPACITOR, P 0.1UF, J, 50V	ECQV1H104JM	
C439	72000231	CAPACITOR, P 0.047UF, J, 50V	ECQB1H473JF	
C441	72000245	CAPACITOR, E 47UF, 25V	ECA1EHG470	
C442	72000248	CAPACITOR, C 1000PF, K, 2KV	ECKD3D102KBP	
C443	72000248	CAPACITOR, C 1000PF, K, 2KV	ECKD3D102KBP	
C445	72000235	CAPACITOR, C 1000PF, K, 1KV	ECKD3A102KBP	
C449	72000245	CAPACITOR, E 47UF, 25V	ECA1EHG470	
C450	72000815	CAPACITOR, C 560PF, K, 500V	ECKD2H561KB7	
C451	72000815	CAPACITOR, C 560PF, K, 500V	ECKD2H561KB7	
C452	72000830	CAPACITOR, E 470UF, 16V	EEUFC1C471	
C453	72000234	CAPACITOR, C 100PF, K, 1KV	ECKD3A101KBP	
C454	72000234	CAPACITOR, C 100PF, K, 1KV	ECKD3A101KBP	
C455	72000911	CAPACITOR, E 1000UF, 25V	ECA1EHG102	
C456	72000261	CAPACITOR, C 1200PF, 500V	ECKDHT122KB	
C457	72000234	CAPACITOR, C 100PF, K, 1KV	ECKD3A101KBP	
C459	72000234	CAPACITOR, C 100PF, K, 1KV	ECKD3A101KBP	
C460	72000825	CAPACITOR, E 1000UF, 200V	EETHC2D102K	
C461	72000234	CAPACITOR, C 100PF, K, 1KV	ECKD3A101KBP	

Loc. No.	Part No	Description	Reference No.	Remarks
C463	72000252	CAPACITOR, P 0.01UF, J, 50V	ECQB1H103JF	
C464	72000252	CAPACITOR, P 0.01UF, J, 50V	ECQB1H103JF	
C465	72000793	CAPACITOR, E 4700UF, 25V	ECA1EHG472	
C466	72000825	CAPACITOR, E 1000UF, 200V	EETHC2D102K	
C467	72000283	CAPACITOR, E 1UF, 50V	ECA1HHG010	
C468	72000827	CAPACITOR, E 330UF, 160V	EEUEB2C331	
C471	72000256	CAPACITOR, E 2200UF, 25V	ECA1EHG222	
C472	72000256	CAPACITOR, E 2200UF, 25V	ECA1EHG222	
C473	72000252	CAPACITOR, P 0.01UF, J, 50V	ECQB1H103JF	
C474	72000257	CAPACITOR, C 0.01UF, Z, 500V	ECKD2H103ZU	
C475	72000824	CAPACITOR, P 0.047UF, J, 800V	ECWH8473JVB	
C477	72000245	CAPACITOR, E 47UF, 25V	ECA1EHG470	
C478	72000245	CAPACITOR, E 47UF, 25V	ECA1EHG470	
C479	72000829	CAPACITOR, E 2700UF, 16V	EEUFC1C272L	
C480	72000829	CAPACITOR, E 2700UF, 16V	EEUFC1C272L	
C481	72000906	CAPACITOR, C 0.01UF, Z, 50V	ECKF1H103ZF	
C484	72000826	CAPACITOR, E 47UF, 25V	EEUEB1E470	
C485	72000906	CAPACITOR, C 0.01UF, Z, 50V	ECKF1H103ZF	
C486	72000792	CAPACITOR, E 4700UF, 10V	ECA1AHG471	
C487	72000243	CAPACITOR, E 22UF, 50V	ECA1HHG220	
C488	72000192	CAPACITOR, E 47UF, 50V	ECA1HHG470	
C489	72000274	CAPACITOR, C 0.022UF, Z, 50V	ECKF1H223ZF	
C492	72000906	CAPACITOR, C 0.01UF, Z, 50V	ECKF1H103ZF	
C494	72000794	CAPACITOR, E 100UF, 50V	ECA1HHG101	
C496	72000263	CAPACITOR, E 6800UF, 10V	EEUFC1A682	
C497	72000265	CAPACITOR, P 1UF, J, 50V	ECQV1H105JM	
C498	72000796	CAPACITOR, E 470UF, 100V	ECA2AHG471	
C499	72000267	CAPACITOR, C 3300PF, K, 500V	ECKDHT332KB	
C500	72000274	CAPACITOR, C 0.022UF, Z, 50V	ECKF1H223ZF	
C501	72000906	CAPACITOR, C 0.01UF, Z, 50V	ECKF1H103ZF	
C502	72000906	CAPACITOR, C 0.01UF, Z, 50V	ECKF1H103ZF	
C504	72000906	CAPACITOR, C 0.01UF, Z, 50V	ECKF1H103ZF	
C505	72000273	CAPACITOR, E 33UF, 50V	EEUFC1H330	
C509	72000261	CAPACITOR, C 1200PF, 500V	ECKDHT122KB	
C511	72000264	CAPACITOR, E 22UF, 200V	ECA2DHG220	
C512	72000906	CAPACITOR, C 0.01UF, Z, 50V	ECKF1H103ZF	
C600	72000280	CAPACITOR, E 10UF, 50V	ECA1HHG100	
C601	72000265	CAPACITOR, P 1UF, J, 50V	ECQV1H105JM	
C603	72000819	CAPACITOR, P 4700PF, J, 50V	ECQB1H472JF	
C604	72000292	CAPACITOR, E 100UF, 25V	ECA1EHG101	

Loc. No.	Part No	Description	Reference No.	Remarks
C605	72000811	CAPACITOR, C 330PF, J, 50V	ECJ2XC1H331J	
C606	72000265	CAPACITOR, P 1UF, J, 50V	ECQV1H105JM	
C607	72000265	CAPACITOR, P 1UF, J, 50V	ECQV1H105JM	
C609	72000231	CAPACITOR, P 0.047UF, J, 50V	ECQB1H473JF	
C610	72000244	CAPACITOR, P 0.1UF, J, 50V	ECQV1H104JM	
C612	72000252	CAPACITOR, P 0.01UF, J, 50V	ECQB1H103JF	
C613	72000265	CAPACITOR, P 1UF, J, 50V	ECQV1H105JM	
C614	72000268	CAPACITOR, C 470PF, K, 50V	ECKF1H471KB	
C615	72000268	CAPACITOR, C 470PF, K, 50V	ECKF1H471KB	
C616	72000292	CAPACITOR, E 100UF, 25V	ECA1EHG101	
C617	72000918	CAPACITOR, P 0.01UF, J, 400V	ECQM4103JZ	
C618	72000280	CAPACITOR, E 10UF, 50V	ECA1HHG100	
C619	72000814	CAPACITOR, C 4700PF, K, 500V	ECKD2H472KB2	
C620	72000814	CAPACITOR, C 4700PF, K, 500V	ECKD2H472KB2	
C621	72000797	CAPACITOR, E 10UF, 25V	ECEA1EN100U	
C622	72000813	CAPACITOR, C 1000PF, M,	ECKCWS102MEB	
C650	72000906	CAPACITOR, C 0.01UF, Z, 50V	ECKF1H103ZF	
C651	72000906	CAPACITOR, C 0.01UF, Z, 50V	ECKF1H103ZF	
C652	72000906	CAPACITOR, C 0.01UF, Z, 50V	ECKF1H103ZF	
C653	72000244	CAPACITOR, P 0.1UF, J, 50V	ECQV1H104JM	
C654	72000282	CAPACITOR, C 100PF, K, 50V	ECKF1H101KB	
C655	72000243	CAPACITOR, E 22UF, 50V	ECA1HHG220	
C656	72000283	CAPACITOR, E 1UF, 50V	ECA1HHG010	
C657	72000284	CAPACITOR, P 1000PF, J, 50V	ECQB1H102JF	
C658	72000818	CAPACITOR, P 1200PF, J, 50V	ECQB1H122JF	
C660	72000252	CAPACITOR, P 0.01UF, J, 50V	ECQB1H103JF	
C661	72000284	CAPACITOR, P 1000PF, J, 50V	ECQB1H102JF	
C731	72000910	CAPACITOR, C 220PF, K, 50V	ECKF1H221KB	
C732	72000243	CAPACITOR, E 22UF, 50V	ECA1HHG220	
C733	72000284	CAPACITOR, P 1000PF, J, 50V	ECQB1H102JF	
C734	72000909	CAPACITOR, E 220UF, 50V	EEUFC1H221	
C735	72000244	CAPACITOR, P 0.1UF, J, 50V	ECQV1H104JM	
C736	72000289	CAPACITOR, C 0.22UF, K, 16V	ECJ2VB1C224K	
C737	72000194	CAPACITOR, P 0.47UF, J, 50V	ECQV1H474JM	
C738	72000284	CAPACITOR, P 1000PF, J, 50V	ECQB1H102JF	
C739	72000284	CAPACITOR, P 1000PF, J, 50V	ECQB1H102JF	
C740	72000284	CAPACITOR, P 1000PF, J, 50V	ECQB1H102JF	
C741	72000243	CAPACITOR, E 22UF, 50V	ECA1HHG220	
C742	72000252	CAPACITOR, P 0.01UF, J, 50V	ECQB1H103JF	
C743	72000244	CAPACITOR, P 0.1UF, J, 50V	ECQV1H104JM	

Loc. No.	Part No	Description	Reference No.	Remarks
C744	72000244	CAPACITOR, P 0.1UF, J, 50V	ECQV1H104JM	
C750	72000906	CAPACITOR, C 0.01UF, Z, 50V	ECKF1H103ZF	
C751	72000906	CAPACITOR, C 0.01UF, Z, 50V	ECKF1H103ZF	
C752	72000915	CAPACITOR, E 470UF, 25V	ECA1EHG471	
C754	72000245	CAPACITOR, E 47UF, 25V	ECA1EHG470	
C755	72000906	CAPACITOR, C 0.01UF, Z, 50V	ECKF1H103ZF	
C756	72000245	CAPACITOR, E 47UF, 25V	ECA1EHG470	
C757	72000906	CAPACITOR, C 0.01UF, Z, 50V	ECKF1H103ZF	
C775	72000906	CAPACITOR, C 0.01UF, Z, 50V	ECKF1H103ZF	
C776	72000906	CAPACITOR, C 0.01UF, Z, 50V	ECKF1H103ZF	
C778	72000265	CAPACITOR, P 1UF, J, 50V	ECQV1H105JM	
C779	72000283	CAPACITOR, E 1UF, 50V	ECA1HHG010	
C780	72000283	CAPACITOR, E 1UF, 50V	ECA1HHG010	
C781	72000283	CAPACITOR, E 1UF, 50V	ECA1HHG010	
C782	72000292	CAPACITOR, E 100UF, 25V	ECA1EHG101	
C783	72000245	CAPACITOR, E 47UF, 25V	ECA1EHG470	
C784	72000906	CAPACITOR, C 0.01UF, Z, 50V	ECKF1H103ZF	
C785	72000915	CAPACITOR, E 470UF, 25V	ECA1EHG471	
C786	72000906	CAPACITOR, C 0.01UF, Z, 50V	ECKF1H103ZF	
C787	72000245	CAPACITOR, E 47UF, 25V	ECA1EHG470	
C8001	72000191	CAPACITOR, C 0.01UF, Z, 50V	ECJ2VF1H103Z	
C8002	72000299	CAPACITOR, E 22UF, 25V	EEVHP1E220	
C8003	72000919	CAPACITOR, C 470PF, K, 50V	ECJ2XB1H471K	
C8004	72000201	CAPACITOR, C 2.2UF, 16V	TCUY1C225KBM	
C8005	72000190	CAPACITOR, C 10UF, M, 6.3V	ECJ3XB0J106M	
C8007	72000224	CAPACITOR, C 0.1UF, Z, 16V	ECJ2VF1C104Z	
C8008	72000190	CAPACITOR, C 10UF, M, 6.3V	ECJ3XB0J106M	
C8009	72000217	CAPACITOR, C 4.7UF, 16V	TCUY1C475ZFM	
C8010	72000201	CAPACITOR, C 2.2UF, 16V	TCUY1C225KBM	
C8011	72000224	CAPACITOR, C 0.1UF, Z, 16V	ECJ2VF1C104Z	
C8012	72000205	CAPACITOR, C 0.01UF, K, 50V	ECJ2XB1H103K	
C8013	72000303	CAPACITOR, C 0.47UF, K, 16V	ECJ3VB1C474K	
C8014	72000205	CAPACITOR, C 0.01UF, K, 50V	ECJ2XB1H103K	
C8015	72000205	CAPACITOR, C 0.01UF, K, 50V	ECJ2XB1H103K	
C8016	72000191	CAPACITOR, C 0.01UF, Z, 50V	ECJ2VF1H103Z	
C8017	72000907	CAPACITOR, E 47UF, 16V	EEVHB1C470	
C8018	72000220	CAPACITOR, C 1000PF, J, 50V	ECJ2XC1H102J	
C8019	72000225	CAPACITOR, C 1UF, Z, 16V	ECJ2VF1C105Z	
C8020	72000200	CAPACITOR, C 100PF, J, 50V	ECJ2XC1H101J	
C8021	72000306	CAPACITOR, C 1500PF, J, 50V	ECJ2XC1H152J	

Loc. No.	Part No	Description	Reference No.	Remarks
C8022	72000224	CAPACITOR, C 0.1UF, Z, 16V	ECJ2VF1C104Z	
C8023	72000907	CAPACITOR, E 47UF, 16V	EEVHB1C470	
C900	72000823	CAPACITOR, P 0.22UF, 250V	ECQU2A224BN9	
C901	72000823	CAPACITOR, P 0.22UF, 250V	ECQU2A224BN9	
C902	72000822	CAPACITOR, P 1UF, 250V	ECQU2A105BN9	
C903	72001061	CAPACITOR, C 220PF	ECKCNA221KBB	
C904	72001061	CAPACITOR, C 220PF	ECKCNA221KBB	
C905	72001061	CAPACITOR, C 220PF	ECKCNA221KBB	
C906	72001061	CAPACITOR, C 220PF	ECKCNA221KBB	
C951	72000831	CAPACITOR, E 330UF, 25V	EEUFC1E331	
C952	72000810	CAPACITOR, C 0.01UF, J, 50V	ECJ2XB1H103J	
C953	72000990	CAPACITOR, C 4.7UF, 25V	F1L1E4750004	
C954	72000220	CAPACITOR, C 1000PF, J, 50V	ECJ2XC1H102J	
C955	72000205	CAPACITOR, C 0.01UF, K, 50V	ECJ2XB1H103K	
C956	72000202	CAPACITOR, C 0.047UF, K, 50V	ECJ2XB1H473K	
C957	72000220	CAPACITOR, C 1000PF, J, 50V	ECJ2XC1H102J	
C958	72000205	CAPACITOR, C 0.01UF, K, 50V	ECJ2XB1H103K	
C959	72000810	CAPACITOR, C 0.01UF, J, 50V	ECJ2XB1H103J	
C960	72000828	CAPACITOR, E 330UF, 6.3V	EEUFC0J331	
C961	72000828	CAPACITOR, E 330UF, 6.3V	EEUFC0J331	
D081	72000323	LED, LNJ107W5PRW	LNJ107W5PRW	
D082	72000324	DIODE, ZENER, MA8056M	MA8056M	
D1001	72000615	DIODE, MA111	MA111	
D2301	72000325	DIODE, M1FS4	M1FS4	
D2302	72000325	DIODE, M1FS4	M1FS4	
D2303	72000325	DIODE, M1FS4	M1FS4	
D2304	72000325	DIODE, M1FS4	M1FS4	
D2305	72000326	DIODE, RU4AM	RU4AM	
D2306	72000326	DIODE, RU4AM	RU4AM	
D2307	72000615	DIODE, MA111	MA111	
D2308	72000923	DIODE, MA152WK	MA152WK	
D3001	72000615	DIODE, MA111	MA111	
D3002	72000325	DIODE, M1FS4	M1FS4	
D3351	72000616	DIODE, MA153A	MA153A	
D3352	72000616	DIODE, MA153A	MA153A	
D3501	72000330	DIODE, ZENER, MA3056M	MA3056M	
D3502	72000330	DIODE, ZENER, MA3057M	MA3056M	
D3503	72000330	DIODE, ZENER, MA3058M	MA3056M	
D3504	72000330	DIODE, ZENER, MA3059M	MA3056M	
D3505	72000616	DIODE, MA153A	MA153A	
D3506	72000616	DIODE, MA153A	MA153A	
D3507	72000615	DIODE, MA111	MA111	
D401	72000338	DIODE, MA165	MA165	
D402	72000338	DIODE, MA165	MA165	
D403	72000623	DIODE, RBV-1306H	RBV-1306H	
D404	72000335	DIODE, D1NL20UV70	D1NL20UV70	
D405	72001019	DIODE, TVSRG2	TVSRG2	
D406	72000334	DIODE, ZENER, MA4300H	MA4300H	
D407	72000338	DIODE, MA165	MA165	
D408	72000334	DIODE, ZENER, MA4300H	MA4300H	
D409	72000361	DIODE, TMPG10G3	TMPG10G3	
D412	72000791	DIODE, D5L60F4015	D5L60F4015	
D413	72000338	DIODE, MA165	MA165	
D414	72000339	DIODE, RK34	RK34	

Loc. No.	Part No	Description	Reference No.	Remarks
D415	72000339	DIODE, RK34	RK34	
D416	72000342	DIODE, AK04	AK04	
D417	72000342	DIODE, AK04	AK04	
D418	72000338	DIODE, MA165	MA165	
D419	72000341	DIODE, S1WBA80	S1WBA80	
D421	72000361	DIODE, TMPG10G3	TMPG10G3	
D422	72000335	DIODE, D1NL20UV70	D1NL20UV70	
D425	72000359	DIODE, ZENER, MA4082L	MA4082L	
D426	72000343	DIODE, ERA22-10	ERA22-10	
D427	72001019	DIODE, TVSRG2	TVSRG2	
D428	72000338	DIODE, MA165	MA165	
D429	72000335	DIODE, D1NL20UV70	D1NL20UV70	
D430	72000344	DIODE, RC3B2LFU1	RC3B2LFU1	
D431	72000353	DIODE, D1NL40V70	D1NL40V70	
D432	72000345	DIODE, ZENER, MA2120A	MA2120A	
D433	72000788	DIODE, B0FAAR000003	B0FAAR000003	
D434	72000346	PHOTO COUPLER, PC123FY2	PC123FY2	
D435	72000346	PHOTO COUPLER, PC123FY2	PC123FY2	
D436	72000346	PHOTO COUPLER, PC123FY2	PC123FY2	
D437	72000787	DIODE, B0BA02700021	B0BA02700021	
D439	72001018	DIODE, TVSEU2	TVSEU2	
D440	72001018	DIODE, TVSEU2	TVSEU2	
D441	72001001	DIODE, RL3Z	RL3Z	
D442	72001001	DIODE, RL3Z	RL3Z	
D443	72000351	DIODE, FML-G12S	FML-G12S	
D444	72000353	DIODE, D1NL40V70	D1NL40V70	
D445	72000351	DIODE, FML-G12S	FML-G12S	
D446	72000991	DIODE, FMGG2CS	FMGG2CS	
D447	72000336	DIODE, MA700A	MA700A	
D448	72000352	DIODE, ZENER, MA4051M	MA4051M	
D449	72000843	DIODE, ERA22-04	ERA22-04	
D450	72000338	DIODE, MA165	MA165	
D451	72000357	DIODE, ERA15-02	ERA15-02	
D452	72000620	DIODE, ZENER, MA4056-M	MA4056-M	
D453	72000338	DIODE, MA165	MA165	
D455	72000843	DIODE, ERA22-04	ERA22-04	
D456	72000843	DIODE, ERA22-04	ERA22-04	
D457	72000617	DIODE, ZENER, MA2330-A	MA2330-A	
D459	72000338	DIODE, MA165	MA165	
D460	72000358	DIODE, ZENER, MA4047H	MA4047H	
D461	72000339	DIODE, RK34	RK34	
D462	72000621	DIODE, ZENER, MA4150-M	MA4150-M	
D463	72000621	DIODE, ZENER, MA4151-M	MA4150-M	
D464	72000621	DIODE, ZENER, MA4152-M	MA4150-M	
D465	72000621	DIODE, ZENER, MA4153-M	MA4150-M	
D468	72000843	DIODE, ERA22-04	ERA22-04	
D469	72000362	DIODE, ZENER, MA4068H	MA4068H	
D470	72000843	DIODE, ERA22-04	ERA22-04	
D481	72000843	DIODE, ERA22-04	ERA22-04	
D604	72000346	PHOTO COUPLER, PC123FY2	PC123FY2	
D606	72000346	PHOTO COUPLER, PC123FY2	PC123FY2	
D607	72000367	DIODE, ZENER, MA3062M	MA3062M	
D608	72000327	DIODE, MA152K	MA152K	
D609	72000327	DIODE, MA152K	MA152K	
D615	72000327	DIODE, MA152K	MA152K	
D650	72000618	DIODE, ZENER, MA3110M	MA3110M	
D651	72000327	DIODE, MA152K	MA152K	
D654	72000325	DIODE, M1FS4	M1FS4	

Loc. No.	Part No	Description	Reference No.	Remarks
D655	72000619	DIODE, ZENER, MA3120M	MA3120M	
D656	72000327	DIODE, MA152K	MA152K	
D657	72000370	DIODE, D1FL40F4063	D1FL40F4063	
D658	72000370	DIODE, D1FL40F4063	D1FL40F4063	
D659	72000619	DIODE, ZENER, MA3120M	MA3120M	
D730	72000327	DIODE, MA152K	MA152K	
D731	72000370	DIODE, D1FL40F4063	D1FL40F4063	
D732	72000370	DIODE, D1FL40F4063	D1FL40F4063	
D733	72000370	DIODE, D1FL40F4063	D1FL40F4063	
D734	72000327	DIODE, MA152K	MA152K	
D735	72000371	DIODE, ZENER, MA3300L	MA3300L	
D736	72000370	DIODE, D1FL40F4063	D1FL40F4063	
D737	72000325	DIODE, M1FS4	M1FS4	
D738	72000370	DIODE, D1FL40F4063	D1FL40F4063	
D739	72000371	DIODE, ZENER, MA3300L	MA3300L	
D740	72000370	DIODE, D1FL40F4063	D1FL40F4063	
D741	72000372	DIODE, ZENER, MA3039H	MA3039H	
D742	72000619	DIODE, ZENER, MA3120M	MA3120M	
D750	72000373	DIODE, ZENER, MA3047H	MA3047H	
D751	72000327	DIODE, MA152K	MA152K	
D752	72000327	DIODE, MA152K	MA152K	
D753	72000374	DIODE, ZENER, MA3033L	MA3033L	
D775	72000327	DIODE, MA152K	MA152K	
D776	72000327	DIODE, MA152K	MA152K	
D777	72000372	DIODE, ZENER, MA3039H	MA3039H	
D8001	72000615	DIODE, MA111	MA111	
D8002	72000615	DIODE, MA111	MA111	
D900	72000340	VARISTOR, ERZV10V621P2	ERZV10V621P2	
D951	72000615	DIODE, MA111	MA111	
D952	72000615	DIODE, MA111	MA111	
D953	72000789	DIODE, B0JCPD000010	B0JCPD000010	
F900-1	72000380	FUSE HOLDER, EYF-52BC	EYF-52BC	
F900-2	72000380	FUSE HOLDER, EYF-52BC	EYF-52BC	
F901-1	72000380	FUSE HOLDER, EYF-52BC	EYF-52BC	
F901-2	72000380	FUSE HOLDER, EYF-52BC	EYF-52BC	
IC1001	72000393	IC, TC7SH32F	TC7SH32F	
IC1002	72000943	IC, M38047M6-C02FP	C2BBFE000106	
IC1003	72000613	IC, LINEAR, M51957BFP	M51957BFP	
IC1004	72000942	IC, RS5C372A-E2	C1DB00000274	
IC2301	72000381	IC, LINEAR, TDA7480	TDA7480	
IC2302	72000381	IC, LINEAR, TDA7480	TDA7480	
IC2304	72000382	IC, PQ09SZ1T	PQ09SZ1T	
IC2401	72000939	IC, LINEAR, BH3865S	BH3865S	
IC3001	72000941	IC, MM1519XQ	C1AB00001139	
IC3002	72000387	IC, CMOS GATE ARRLY, MC14052BF	MC14052BF	
IC3003	72000387	IC, CMOS GATE ARRLY, MC14052BF	MC14052BF	
IC3004	72000389	IC, LINEAR, CXA1315M	CXA1315M	
IC3006	72000382	IC, PQ09SZ1T	PQ09SZ1T	
IC3007	72000924	IC, PQ12SZ1T	PQ12SZ1T	
IC3008	72000924	IC, PQ12SZ1T	PQ12SZ1T	

Loc. No.	Part No	Description	Reference No.	Remarks
IC3009	72000783	IC, SN74AHC2G66HDCTR	AHC2G66HDCTR	
IC3301	72000410	IC, CMOS S/LOGIC, TC4W53F	TC4W53F	
IC3302	72000409	IC, AD-8055ART-REEL7	AD8055ART	
IC3303	72000410	IC, CMOS S/LOGIC, TC4W53F	TC4W53F	
IC3501	72000420	IC, MICRON LSI, JLC1562BF	JLC1562BF	
IC3502	72001015	IC, 24LC21T-I/SN	TVRJ661	
IC3515	72000394	IC, MAX202CSE-TG068	MAX202CSE	
IC3699	72001014	IC, EEPROM 16KBIT, 24LC16B-I/PA45	TVRJ593	
IC3801	72000411	IC, MM1065ZMR	MM1065ZMR	
IC3802	72000415	IC, LOGIC, PST9128NR	PST9128NR	
IC3803	72001016	IC, MSM56V16169D-8TS-K	TVSA0367	
IC3805	72000411	IC, MM1065ZMR	MM1065ZMR	
IC3806	72000411	IC, MM1065ZMR	MM1065ZMR	
IC3809	72000417	IC, CMOS S/LOGIC, TC74LCX244F	TC74LCX244F	
IC401	72000396	IC, LINEAR, AN7715F	AN7715F	
IC402	72000785	IC, LINEAR, AN7718F	AN7718F	
IC403	72000395	IC, LOGIC, MIP0210SY1TV	MIP0210SY1TV	
IC406	72000398	IC, LINEAR, UPC1093J	UPC1093J	
IC407	72000786	IC, LINEAR, AN77L05	AN77L05	
IC409	72000400	IC, LINEAR, PQ30RV21A	PQ30RV21A	
IC410	72000622	IC, LINEAR, PQ05RF1B	PQ05RF1B	
IC411	72000399	IC, HYBRID, SI-8050S	SI-8050S	
IC412	72000398	IC, LINEAR, UPC1093J	UPC1093J	
IC464	72000398	IC, LINEAR, UPC1093J	UPC1093J	
IC600	72000999	IC, IR2117	IR2117	
IC601	72000614	IC, LINEAR, M51997P	M51997P	
IC602	72000402	IC, UC3715N	UC3715N	
IC603	72000398	IC, LINEAR, UPC1093J	UPC1093J	
IC650	72000404	IC, LINEAR, AN8026	AN8026	
IC735	72000405	IC, MC33262P	MC33262P	
IC736	72000784	IC, LINEAR, AN6913	AN6913	
IC737	72000407	IC, LINEAR, AN78L05	AN78L05	
IC750	72000406	IC, LINEAR, AN6912	AN6912	
IC775	72000406	IC, LINEAR, AN6912	AN6912	
IC8001	72000413	IC, LINEAR, M52036SP	M52036SP	
IC8002	72000414	IC, TC74HC14AF	TC74HC14AF	
IC8003	72000417	IC, CMOS S/LOGIC, TC74LCX244F	TC74LCX244F	
IC951	72000940	IC, MD1222N-4072	C0DBAZH00006	
JK3301	72000608	CONNECTOR, K1CB106B0027	K1CB106B0027	
JK3305	72000612	JACK, K2HA306B0049	K2HA306B0049	
JK3306	72000611	JACK, K2HA306B0048	K2HA306B0048	
JK3307	72000610	JACK, K2HA204B0097	K2HA204B0097	
JK3308	72000609	JACK, K2HA204B0096	K2HA204B0096	
JK3509	72001006	CONNECTOR, TJS4A8390	TJS4A8390	
JK3511	72000430	CONNECTOR, TJS8A9880	TJS8A9880	
JK3513	72000925	JACK, K2HC103B0105	K2HC103B0105	

Loc. No.	Part No	Description	Reference No.	Remarks
L1001	72000435	COIL, CHIP INDUCTOR, ELJPA100KB	ELJPA100KB	
L1002	72000435	COIL, CHIP INDUCTOR, ELJPA100KB	ELJPA100KB	
L2301	72000926	COIL, LC FILTER, ELC10E680	ELC10E680	
L2302	72000926	COIL, LC FILTER, ELC10E680	ELC10E680	
L2303	72000434	COIL, BEAD CHOKE, EXCELD35C	EXCELD35C	
L2304	72000434	COIL, BEAD CHOKE, EXCELD35C	EXCELD35C	
L2306	72000435	COIL, CHIP INDUCTOR, ELJPA100KB	ELJPA100KB	
L2401	72000435	COIL, CHIP INDUCTOR, ELJPA100KB	ELJPA100KB	
L3001	72000435	COIL, CHIP INDUCTOR, ELJPA100KB	ELJPA100KB	
L3002	72000435	COIL, CHIP INDUCTOR, ELJPA100KB	ELJPA100KB	
L3003	72000435	COIL, CHIP INDUCTOR, ELJPA100KB	ELJPA100KB	
L3004	72000435	COIL, CHIP INDUCTOR, ELJPA100KB	ELJPA100KB	
L3005	72000435	COIL, CHIP INDUCTOR, ELJPA100KB	ELJPA100KB	
L3006	72000435	COIL, CHIP INDUCTOR, ELJPA100KB	ELJPA100KB	
L3007	72000435	COIL, CHIP INDUCTOR, ELJPA100KB	ELJPA100KB	
L3301	72001007	COIL, EMI FILTER, TLK20LFA223M	TLK20LFA223M	
L3302	72000436	COIL, EMI FILTER, TLK20LFA224M	TLK20LFA224M	
L3303	72000436	COIL, EMI FILTER, TLK20LFA224M	TLK20LFA224M	
L3304	72001007	COIL, EMI FILTER, TLK20LFA223M	TLK20LFA223M	
L3305	72001007	COIL, EMI FILTER, TLK20LFA223M	TLK20LFA223M	
L3306	72000435	COIL, CHIP INDUCTOR, ELJPA100KB	ELJPA100KB	
L3307	72000435	COIL, CHIP INDUCTOR, ELJPA100KB	ELJPA100KB	
L3351	72001007	COIL, EMI FILTER, TLK20LFA223M	TLK20LFA223M	
L3352	72001007	COIL, EMI FILTER, TLK20LFA223M	TLK20LFA223M	
L3353	72000436	COIL, EMI FILTER, TLK20LFA224M	TLK20LFA224M	
L3354	72000436	COIL, EMI FILTER, TLK20LFA224M	TLK20LFA224M	
L3355	72000436	COIL, EMI FILTER, TLK20LFA224M	TLK20LFA224M	
L3356	72001007	COIL, EMI FILTER, TLK20LFA223M	TLK20LFA223M	
L3357	72001007	COIL, EMI FILTER, TLK20LFA223M	TLK20LFA223M	
L3358	72000435	COIL, CHIP INDUCTOR, ELJPA100KB	ELJPA100KB	
L3359	72000435	COIL, CHIP INDUCTOR, ELJPA100KB	ELJPA100KB	
L3501	72000435	COIL, CHIP INDUCTOR, ELJPA100KB	ELJPA100KB	
L3507	72000436	COIL, EMI FILTER, TLK20LFA224M	TLK20LFA224M	

Loc. No.	Part No	Description	Reference No.	Remarks
L3508	72000436	COIL, EMI FILTER, TLK20LFA224M	TLK20LFA224M	
L3509	72000436	COIL, EMI FILTER, TLK20LFA224M	TLK20LFA224M	
L3510	72000437	COIL, EMI FILTER, TLK212T256AL	TLK212T256AL	
L3511	72000437	COIL, EMI FILTER, TLK212T256AL	TLK212T256AL	
L3512	72000437	COIL, EMI FILTER, TLK212T256AL	TLK212T256AL	
L3513	72000437	COIL, EMI FILTER, TLK212T256AL	TLK212T256AL	
L3525	72000435	COIL, CHIP INDUCTOR, ELJPA100KB	ELJPA100KB	
L3526	72000435	COIL, CHIP INDUCTOR, ELJPA100KB	ELJPA100KB	
L3530	72000435	COIL, CHIP INDUCTOR, ELJPA100KB	ELJPA100KB	
L3555	72000435	COIL, CHIP INDUCTOR, ELJPA100KB	ELJPA100KB	
L3801	72000436	COIL, EMI FILTER, TLK20LFA224M	TLK20LFA224M	
L3802	72000436	COIL, EMI FILTER, TLK20LFA224M	TLK20LFA224M	
L3803	72000995	COIL, INDUCTOR COIL, G1C100KA0008	G1C100KA0008	
L3807	72001002	COIL, CHIP INDUCTOR COIL, TALC168T2R2K	TALC168T2R2K	
L3808	72000995	COIL, INDUCTOR COIL, G1C100KA0008	G1C100KA0008	
L3809	72001004	COIL, CHIP INDUCTOR COIL, TALC325T4R7M	TALC325T4R7M	
L3810	72000995	COIL, INDUCTOR COIL, G1C100KA0008	G1C100KA0008	
L3811	72000995	COIL, INDUCTOR COIL, G1C100KA0008	G1C100KA0008	
L3813	72001003	COIL, CHIP INDUCTOR COIL, TALC168T4R7K	TALC168T4R7K	
L3814	72000995	COIL, INDUCTOR COIL, G1C100KA0008	G1C100KA0008	
L3815	72000995	COIL, INDUCTOR COIL, G1C100KA0008	G1C100KA0008	
L3816	72000995	COIL, INDUCTOR COIL, G1C100KA0008	G1C100KA0008	
L3817	72000436	COIL, EMI FILTER, TLK20LFA224M	TLK20LFA224M	
L3818	72000436	COIL, EMI FILTER, TLK20LFA224M	TLK20LFA224M	
L3819	72000436	COIL, EMI FILTER, TLK20LFA224M	TLK20LFA224M	
L3820	72001007	COIL, EMI FILTER, TLK20LFA223M	TLK20LFA223M	
L3821	72001007	COIL, EMI FILTER, TLK20LFA223M	TLK20LFA223M	
L3822	72000837	COIL, NOISE FILTER, ELKE103FA	ELKE103FA	
L3823	72000837	COIL, NOISE FILTER, ELKE103FA	ELKE103FA	
L3824	72000837	COIL, NOISE FILTER, ELKE103FA	ELKE103FA	
L3825	72000837	COIL, NOISE FILTER, ELKE103FA	ELKE103FA	
L3826	72000436	COIL, EMI FILTER, TLK20LFA224M	TLK20LFA224M	
L3827	72000436	COIL, EMI FILTER, TLK20LFA224M	TLK20LFA224M	
L3828	72001007	COIL, EMI FILTER, TLK20LFA223M	TLK20LFA223M	
L3829	72001007	COIL, EMI FILTER, TLK20LFA223M	TLK20LFA223M	
L3830	72000435	COIL, CHIP INDUCTOR, ELJPA100KB	ELJPA100KB	
L401	72000438	COIL, CHOKE COIL, TLPF102	TLPF102	
L402	72000451	COIL, LINE FILTER, ELF11M010E	ELF11M010E	

Loc. No.	Part No	Description	Reference No.	Remarks
L403	72000439	COIL, PEAKING COIL, ELEXH100KA	ELEXH100KA	
L404	72000994	COIL, COIL, G0ZZ00001922	G0ZZ00001922	
L410	72000442	COIL, BEAD CHOKE, EXCELSA39	EXCELSA39	
L412	72000442	COIL, BEAD CHOKE, EXCELSA39	EXCELSA39	
L413	72000442	COIL, BEAD CHOKE, EXCELSA39	EXCELSA39	
L414	72000443	COIL, BEAD CHOKE, EXCELD25C	EXCELD25C	
L416	72000441	COIL, CHOKE COIL, TLPF075	TLPF075	
L8001	72000435	COIL, CHIP INDUCTOR, ELJPA100KB	ELJPA100KB	
L8002	72000435	COIL, CHIP INDUCTOR, ELJPA100KB	ELJPA100KB	
L8003	72000435	COIL, CHIP INDUCTOR, ELJPA100KB	ELJPA100KB	
L8501	72000446	COIL, LINE FILTER, TLPD061	TLPD061	
L8502	72000446	COIL, LINE FILTER, TLPD061	TLPD061	
L901	72000992	COIL, LINE CHOKE COIL, G0A143K00001	G0A143K00001	
L902	72001008	COIL, LINE FILTER, TLPD048	TLPD048	
L903	72001008	COIL, LINE FILTER, TLPD048	TLPD048	
L951	72000993	COIL, LINE CHOKE COIL, G0A2R2J00002	G0A2R2J00002	
L952	72000996	COIL, INDUCTOR COIL, G1C100M00023	G1C100M00023	
L953	72001005	COIL, INDUCTION COIL, TALL08N1R0NA	TALL08N1R0NA	
LC3805	72000836	LC FILTER, ELB4B578	ELB4B578	
Q082	72000452	TRANSISTOR, 2SD601A	2SD601A	
Q1001	72000452	TRANSISTOR, 2SD601A	2SD601A	
Q1002	72000452	TRANSISTOR, 2SD601A	2SD601A	
Q1003	72000452	TRANSISTOR, 2SD601A	2SD601A	
Q1004	72000453	TRANSISTOR, 2SB709A	2SB709A	
Q1005	72000453	TRANSISTOR, 2SB709A	2SB709A	
Q2301	72000452	TRANSISTOR, 2SD601A	2SD601A	
Q2302	72000452	TRANSISTOR, 2SD601A	2SD601A	
Q2303	72000452	TRANSISTOR, 2SD601A	2SD601A	
Q2304	72000452	TRANSISTOR, 2SD601A	2SD601A	
Q2305	72000452	TRANSISTOR, 2SD601A	2SD601A	
Q2306	72000452	TRANSISTOR, 2SD601A	2SD601A	
Q2406	72000452	TRANSISTOR, 2SD601A	2SD601A	
Q2408	72000452	TRANSISTOR, 2SD601A	2SD601A	
Q2410	72000452	TRANSISTOR, 2SD601A	2SD601A	
Q3001	72000781	TRANSISTOR, 2SC2480	2SC2480	
Q3002	72000453	TRANSISTOR, 2SB709A	2SB709A	
Q3003	72000781	TRANSISTOR, 2SC2480	2SC2480	
Q3004	72000453	TRANSISTOR, 2SB709A	2SB709A	
Q3005	72000781	TRANSISTOR, 2SC2480	2SC2480	
Q3006	72000453	TRANSISTOR, 2SB709A	2SB709A	
Q3007	72000453	TRANSISTOR, 2SB709A	2SB709A	
Q3008	72000781	TRANSISTOR, 2SC2480	2SC2480	
Q3009	72000453	TRANSISTOR, 2SB709A	2SB709A	
Q3010	72000781	TRANSISTOR, 2SC2480	2SC2480	
Q3011	72000453	TRANSISTOR, 2SB709A	2SB709A	
Q3012	72000781	TRANSISTOR, 2SC2480	2SC2480	
Q3085	72000453	TRANSISTOR, 2SB709A	2SB709A	
Q3086	72000453	TRANSISTOR, 2SB709A	2SB709A	
Q3301	72000452	TRANSISTOR, 2SD601A	2SD601A	
Q3302	72000452	TRANSISTOR, 2SD601A	2SD601A	
Q3303	72000452	TRANSISTOR, 2SD601A	2SD601A	
Q3304	72000452	TRANSISTOR, 2SD601A	2SD601A	
Q3305	72000452	TRANSISTOR, 2SD601A	2SD601A	
Q3306	72000452	TRANSISTOR, 2SD601A	2SD601A	
Q3307	72000452	TRANSISTOR, 2SD601A	2SD601A	

Loc. No.	Part No	Description	Reference No.	Remarks
Q3308	72000452	TRANSISTOR, 2SD601A	2SD601A	
Q3309	72000452	TRANSISTOR, 2SD601A	2SD601A	
Q3351	72000452	TRANSISTOR, 2SD601A	2SD601A	
Q3352	72000452	TRANSISTOR, 2SD601A	2SD601A	
Q3353	72000453	TRANSISTOR, 2SB709A	2SB709A	
Q3354	72000452	TRANSISTOR, 2SD601A	2SD601A	
Q3355	72000452	TRANSISTOR, 2SD601A	2SD601A	
Q3356	72000452	TRANSISTOR, 2SD601A	2SD601A	
Q3357	72000452	TRANSISTOR, 2SD601A	2SD601A	
Q3358	72000452	TRANSISTOR, 2SD601A	2SD601A	
Q3359	72000453	TRANSISTOR, 2SB709A	2SB709A	
Q3501	72000452	TRANSISTOR, 2SD601A	2SD601A	
Q3502	72000452	TRANSISTOR, 2SD601A	2SD601A	
Q3503	72000452	TRANSISTOR, 2SD601A	2SD601A	
Q3507	72000452	TRANSISTOR, 2SD601A	2SD601A	CIRCUIT BOARD HX
Q3507	72000453	TRANSISTOR, 2SB709A	2SB709A	CIRCUIT BOARD HZ
Q3508	72000452	TRANSISTOR, 2SD601A	2SD601A	CIRCUIT BOARD HX
Q3508	72000453	TRANSISTOR, 2SB709A	2SB709A	CIRCUIT BOARD HZ
Q3509	72000452	TRANSISTOR, 2SD601A	2SD601A	CIRCUIT BOARD HX
Q3509	72000453	TRANSISTOR, 2SB709A	2SB709A	CIRCUIT BOARD HZ
Q3513	72000452	TRANSISTOR, 2SD601A	2SD601A	
Q3514	72000453	TRANSISTOR, 2SB709A	2SB709A	
Q3515	72000452	TRANSISTOR, 2SD601A	2SD601A	
Q3516	72000453	TRANSISTOR, 2SB709A	2SB709A	
Q3531	72000452	TRANSISTOR, 2SD601A	2SD601A	
Q3532	72000452	TRANSISTOR, 2SD601A	2SD601A	
Q3801	72000453	TRANSISTOR, 2SB709A	2SB709A	
Q3802	72000453	TRANSISTOR, 2SB709A	2SB709A	
Q3803	72000452	TRANSISTOR, 2SD601A	2SD601A	
Q3804	72000452	TRANSISTOR, 2SD601A	2SD601A	
Q3805	72000453	TRANSISTOR, 2SB709A	2SB709A	
Q3806	72000453	TRANSISTOR, 2SB709A	2SB709A	
Q3807	72000453	TRANSISTOR, 2SB709A	2SB709A	
Q3808	72000452	TRANSISTOR, 2SD601A	2SD601A	
Q3809	72000782	TRANSISTOR, FET, 2SK198R	2SK198R	
Q3810	72000452	TRANSISTOR, 2SD601A	2SD601A	
Q3812	72000453	TRANSISTOR, 2SB709A	2SB709A	
Q3813	72000453	TRANSISTOR, 2SB709A	2SB709A	
Q3815	72000453	TRANSISTOR, 2SB709A	2SB709A	
Q3817	72000453	TRANSISTOR, 2SB709A	2SB709A	
Q401	72000779	TRANSISTOR, 2SB1434R	2SB1434R	
Q402	72000456	TRANSISTOR, FET, 2SK3318000LB	2SK3318000LB	
Q404	72000456	TRANSISTOR, FET, 2SK3318000LB	2SK3318000LB	
Q405	72000461	TRANSISTOR, 2SD2177R	2SD2177R	
Q406	72000779	TRANSISTOR, 2SB1434R	2SB1434R	
Q407	72000456	TRANSISTOR, FET, 2SK3318000LB	2SK3318000LB	
Q408	72000790	TRANSISTOR, FET, B1DEGR000011	B1DEGR000011	
Q409	72000460	TRANSISTOR, 2SC3311A	2SC3311A	
Q410	72000459	TRANSISTOR, FET, 2SK2847	2SK2847	
Q412	72000460	TRANSISTOR, 2SC3311A	2SC3311A	
Q413	72000460	TRANSISTOR, 2SC3311A	2SC3311A	
Q414	72000462	TRANSISTOR, 2SA1309A	2SA1309A	
Q415	72000460	TRANSISTOR, 2SC3311A	2SC3311A	
Q416	72000462	TRANSISTOR, 2SA1309A	2SA1309A	
Q417	72000460	TRANSISTOR, 2SC3311A	2SC3311A	

Loc. No.	Part No	Description	Reference No.	Remarks
Q418	72000460	TRANSISTOR, 2SC3311A	2SC3311A	
Q419	72000455	TRANSISTOR, FET, 2SK1917	2SK1917	
Q420	72000780	TRANSISTOR, 2SC1473AH	2SC1473AH	
Q421	72000460	TRANSISTOR, 2SC3311A	2SC3311A	
Q422	72000461	TRANSISTOR, 2SD2177R	2SD2177R	
Q423	72000460	TRANSISTOR, 2SC3311A	2SC3311A	
Q462	72000780	TRANSISTOR, 2SC1473AH	2SC1473AH	
Q464	72000780	TRANSISTOR, 2SC1473AH	2SC1473AH	
Q465	72000455	TRANSISTOR, FET, 2SK1917	2SK1917	
Q600	72000780	TRANSISTOR, 2SC1473AH	2SC1473AH	
Q601	72000460	TRANSISTOR, 2SC3311A	2SC3311A	
Q602	72000461	TRANSISTOR, 2SD2177R	2SD2177R	
Q603	72000779	TRANSISTOR, 2SB1434R	2SB1434R	
Q604	72000462	TRANSISTOR, 2SA1309A	2SA1309A	
Q650	72000460	TRANSISTOR, 2SC3311A	2SC3311A	
Q651	72000460	TRANSISTOR, 2SC3311A	2SC3311A	
Q730	72000466	TRANSISTOR, 2SB1030A	2SB1030A	
Q750	72000460	TRANSISTOR, 2SC3311A	2SC3311A	
Q751	72000462	TRANSISTOR, 2SA1309A	2SA1309A	
Q775	72000460	TRANSISTOR, 2SC3311A	2SC3311A	
Q776	72000462	TRANSISTOR, 2SA1309A	2SA1309A	
Q8021	72000452	TRANSISTOR, 2SD601A	2SD601A	
Q8030	72000452	TRANSISTOR, 2SD601A	2SD601A	
Q951	72000452	TRANSISTOR, 2SD601A	2SD601A	
R081	72000469	RESISTOR, M 47 OHM, J, 1/10W	ERJ6GEYJ470	
R082	72000470	RESISTOR, M 220KOHM, J, 1/10W	ERJ6GEYJ224	
R083	72000471	RESISTOR, M 470 OHM, J, 1/10W	ERJ6GEYJ471	
R084	72000970	RESISTOR, M 270 OHM, J, 1/10W	ERJ6GEYJ271	
R087	72000473	RESISTOR, M 0 OHM, J, 1/10W	ERJ6GEY0R00	
R088	72000958	RESISTOR, M 1KOHM, J, 1/10W	ERJ6GEYJ102	
R1001	72000625	RESISTOR, RESISTOR ARRAY	EXB38V330J	
R1002	72000625	RESISTOR, RESISTOR ARRAY	EXB38V330J	
R1003	72000625	RESISTOR, RESISTOR ARRAY	EXB38V330J	
R1004	72000625	RESISTOR, RESISTOR ARRAY	EXB38V330J	
R1006	72000495	RESISTOR, M 100 OHM, J, 1/10W	ERJ6GEYJ101	
R1007	72000495	RESISTOR, M 100 OHM, J, 1/10W	ERJ6GEYJ101	
R1008	72000495	RESISTOR, M 100 OHM, J, 1/10W	ERJ6GEYJ101	
R1009	72000959	RESISTOR, M 10KOHM, J, 1/10W	ERJ6GEYJ103	
R1010	72000959	RESISTOR, M 10KOHM, J, 1/10W	ERJ6GEYJ103	
R1011	72000959	RESISTOR, M 10KOHM, J, 1/10W	ERJ6GEYJ103	
R1012	72000495	RESISTOR, M 100 OHM, J, 1/10W	ERJ6GEYJ101	

Loc. No.	Part No	Description	Reference No.	Remarks
R1013	72000495	RESISTOR, M 100 OHM, J, 1/10W	ERJ6GEYJ101	
R1014	72000959	RESISTOR, M 10KOHM, J, 1/10W	ERJ6GEYJ103	
R1015	72000959	RESISTOR, M 10KOHM, J, 1/10W	ERJ6GEYJ103	
R1016	72000959	RESISTOR, M 10KOHM, J, 1/10W	ERJ6GEYJ103	
R1017	72000959	RESISTOR, M 10KOHM, J, 1/10W	ERJ6GEYJ103	
R1018	72000959	RESISTOR, M 10KOHM, J, 1/10W	ERJ6GEYJ103	
R1019	72000495	RESISTOR, M 100 OHM, J, 1/10W	ERJ6GEYJ101	
R1020	72000959	RESISTOR, M 10KOHM, J, 1/10W	ERJ6GEYJ103	
R1021	72000959	RESISTOR, M 10KOHM, J, 1/10W	ERJ6GEYJ103	
R1022	72000495	RESISTOR, M 100 OHM, J, 1/10W	ERJ6GEYJ101	
R1023	72000959	RESISTOR, M 10KOHM, J, 1/10W	ERJ6GEYJ103	
R1024	72000959	RESISTOR, M 10KOHM, J, 1/10W	ERJ6GEYJ103	
R1025	72000959	RESISTOR, M 10KOHM, J, 1/10W	ERJ6GEYJ103	
R1026	72000495	RESISTOR, M 100 OHM, J, 1/10W	ERJ6GEYJ101	
R1027	72000959	RESISTOR, M 10KOHM, J, 1/10W	ERJ6GEYJ103	
R1028	72000495	RESISTOR, M 100 OHM, J, 1/10W	ERJ6GEYJ101	
R1029	72000959	RESISTOR, M 10KOHM, J, 1/10W	ERJ6GEYJ103	
R1030	72000959	RESISTOR, M 10KOHM, J, 1/10W	ERJ6GEYJ103	
R1031	72000495	RESISTOR, M 100 OHM, J, 1/10W	ERJ6GEYJ101	
R1032	72000959	RESISTOR, M 10KOHM, J, 1/10W	ERJ6GEYJ103	
R1033	72000959	RESISTOR, M 10KOHM, J, 1/10W	ERJ6GEYJ103	
R1034	72000959	RESISTOR, M 10KOHM, J, 1/10W	ERJ6GEYJ103	
R1035	72000959	RESISTOR, M 10KOHM, J, 1/10W	ERJ6GEYJ103	
R1036	72000495	RESISTOR, M 100 OHM, J, 1/10W	ERJ6GEYJ101	
R1037	72000959	RESISTOR, M 10KOHM, J, 1/10W	ERJ6GEYJ103	
R1038	72000495	RESISTOR, M 100 OHM, J, 1/10W	ERJ6GEYJ101	
R1039	72000959	RESISTOR, M 10KOHM, J, 1/10W	ERJ6GEYJ103	
R1040	72000495	RESISTOR, M 100 OHM, J, 1/10W	ERJ6GEYJ101	
R1041	72000959	RESISTOR, M 10KOHM, J, 1/10W	ERJ6GEYJ103	
R1042	72000959	RESISTOR, M 10KOHM, J, 1/10W	ERJ6GEYJ103	
R1043	72000959	RESISTOR, M 10KOHM, J, 1/10W	ERJ6GEYJ103	
R1044	72000959	RESISTOR, M 10KOHM, J, 1/10W	ERJ6GEYJ103	
R1045	72000959	RESISTOR, M 10KOHM, J, 1/10W	ERJ6GEYJ103	
R1046	72000495	RESISTOR, M 100 OHM, J, 1/10W	ERJ6GEYJ101	
R1047	72000959	RESISTOR, M 10KOHM, J, 1/10W	ERJ6GEYJ103	
R1048	72000495	RESISTOR, M 100 OHM, J, 1/10W	ERJ6GEYJ101	
R1049	72000495	RESISTOR, M 100 OHM, J, 1/10W	ERJ6GEYJ101	
R1050	72000495	RESISTOR, M 100 OHM, J, 1/10W	ERJ6GEYJ101	
R1051	72000495	RESISTOR, M 100 OHM, J, 1/10W	ERJ6GEYJ101	
R1052	72000495	RESISTOR, M 100 OHM, J, 1/10W	ERJ6GEYJ101	

Loc. No.	Part No	Description	Reference No.	Remarks
R1053	72000959	RESISTOR, M 10KOHM, J, 1/10W	ERJ6GEYG103	
R1054	72000495	RESISTOR, M 100 OHM, J, 1/10W	ERJ6GEYJ101	
R1055	72000959	RESISTOR, M 10KOHM, J, 1/10W	ERJ6GEYG103	
R1056	72000959	RESISTOR, M 10KOHM, J, 1/10W	ERJ6GEYG103	
R1057	72000495	RESISTOR, M 100 OHM, J, 1/10W	ERJ6GEYJ101	
R1058	72000505	RESISTOR, M 1MOHM, J, 1/16W	ERJ3GEYJ105	
R1059	72000905	RESISTOR, M 24KOHM, 1/10W	ERJ6ENF2402	
R1060	72000959	RESISTOR, M 10KOHM, J, 1/10W	ERJ6GEYG103	
R1061	72000959	RESISTOR, M 10KOHM, J, 1/10W	ERJ6GEYG103	
R1062	72000958	RESISTOR, M 1KOHM, J, 1/10W	ERJ6GEYG102	
R1063	72000959	RESISTOR, M 10KOHM, J, 1/10W	ERJ6GEYG103	
R1064	72000956	RESISTOR, M 47KOHM, J, 1/10W	ERJ6GEYF473	
R1065	72000959	RESISTOR, M 10KOHM, J, 1/10W	ERJ6GEYG103	
R1066	72000958	RESISTOR, M 1KOHM, J, 1/10W	ERJ6GEYG102	
R1067	72000959	RESISTOR, M 10KOHM, J, 1/10W	ERJ6GEYG103	
R1068	72000956	RESISTOR, M 47KOHM, J, 1/10W	ERJ6GEYF473	
R1069	72000960	RESISTOR, M 100KOHM, J, 1/10W	ERJ6GEYG104	
R1070	72000959	RESISTOR, M 10KOHM, J, 1/10W	ERJ6GEYG103	
R1071	72000960	RESISTOR, M 100KOHM, J, 1/10W	ERJ6GEYG104	
R1072	72000593	RESISTOR, M 10KOHM, 1/10W	ERJ6ENF1002	
R1554	72000969	RESISTOR, M 2.2KOHM, J, 1/10W	ERJ6GEYG222	
R1555	72000969	RESISTOR, M 2.2KOHM, J, 1/10W	ERJ6GEYG222	
R2301	72000955	RESISTOR, M 4.7KOHM, J, 1/10W	ERJ6GEYF472	
R2304	72000956	RESISTOR, M 47KOHM, J, 1/10W	ERJ6GEYF473	
R2305	72000478	RESISTOR, M 22KOHM, J, 1/10W	ERJ6GEYJ223	
R2306	72000478	RESISTOR, M 22KOHM, J, 1/10W	ERJ6GEYJ223	
R2307	72000977	RESISTOR, M 68KOHM, J, 1/10W	ERJ6GEYG683	
R2308	72000956	RESISTOR, M 47KOHM, J, 1/10W	ERJ6GEYF473	
R2309	72000955	RESISTOR, M 4.7KOHM, J, 1/10W	ERJ6GEYF472	
R2310	72000975	RESISTOR, M 5.6KOHM, J, 1/10W	ERJ6GEYG562	
R2319	72000957	RESISTOR, M 560 OHM, J, 1/10W	ERJ6GEYF561	
R2320	72000957	RESISTOR, M 560 OHM, J, 1/10W	ERJ6GEYF561	
R2321	72000473	RESISTOR, M 0 OHM, J, 1/10W	ERJ6GEY0R00	
R2322	72000958	RESISTOR, M 1KOHM, J, 1/10W	ERJ6GEYG102	
R2323	72000958	RESISTOR, M 1KOHM, J, 1/10W	ERJ6GEYG102	
R2324	72000957	RESISTOR, M 560 OHM, J, 1/10W	ERJ6GEYF561	
R2325	72000957	RESISTOR, M 560 OHM, J, 1/10W	ERJ6GEYF561	
R2326	72000953	RESISTOR, M 12KOHM, J, 1/10W	ERJ6GEYF123	
R2327	72000483	RESISTOR, M 7.5KOHM, J, 1/10W	ERJ6GEYJ752	
R2328	72000977	RESISTOR, M 68KOHM, J, 1/10W	ERJ6GEYG683	

Loc. No.	Part No	Description	Reference No.	Remarks
R2329	72000973	RESISTOR, M 3.3KOHM, J, 1/10W	ERJ6GEYG332	
R2330	72000973	RESISTOR, M 3.3KOHM, J, 1/10W	ERJ6GEYG332	
R2331	72000473	RESISTOR, M 0 OHM, J, 1/10W	ERJ6GEY0R00	
R2332	72000967	RESISTOR, M 1.8KOHM, J, 1/10W	ERJ6GEYG182	
R2333	72000471	RESISTOR, M 470 OHM, J, 1/10W	ERJ6GEYJ471	
R2334	72000955	RESISTOR, M 4.7KOHM, J, 1/10W	ERJ6GEYF472	
R2335	72000953	RESISTOR, M 12KOHM, J, 1/10W	ERJ6GEYF123	
R2336	72000953	RESISTOR, M 12KOHM, J, 1/10W	ERJ6GEYF123	
R2341	72000959	RESISTOR, M 10KOHM, J, 1/10W	ERJ6GEYG103	
R2342	72000473	RESISTOR, M 0 OHM, J, 1/10W	ERJ6GEY0R00	
R2343	72000959	RESISTOR, M 10KOHM, J, 1/10W	ERJ6GEYG103	
R2344	72000473	RESISTOR, M 0 OHM, J, 1/10W	ERJ6GEY0R00	
R2345	72000471	RESISTOR, M 470 OHM, J, 1/10W	ERJ6GEYJ471	
R2346	72000953	RESISTOR, M 12KOHM, J, 1/10W	ERJ6GEYF123	
R2347	72000956	RESISTOR, M 47KOHM, J, 1/10W	ERJ6GEYF473	
R2348	72000959	RESISTOR, M 10KOHM, J, 1/10W	ERJ6GEYG103	
R2408	72000959	RESISTOR, M 10KOHM, J, 1/10W	ERJ6GEYG103	
R2410	72000959	RESISTOR, M 10KOHM, J, 1/10W	ERJ6GEYG103	
R2431	72000953	RESISTOR, M 12KOHM, J, 1/10W	ERJ6GEYF123	
R2434	72000955	RESISTOR, M 4.7KOHM, J, 1/10W	ERJ6GEYF472	
R2438	72000495	RESISTOR, M 100 OHM, J, 1/10W	ERJ6GEYJ101	
R2439	72000492	RESISTOR, M 56KOHM, J, 1/10W	ERJ6GEYJ563	
R2440	72000473	RESISTOR, M 0 OHM, J, 1/10W	ERJ6GEY0R00	
R2441	72000953	RESISTOR, M 12KOHM, J, 1/10W	ERJ6GEYF123	
R2445	72000473	RESISTOR, M 0 OHM, J, 1/10W	ERJ6GEY0R00	
R2448	72000958	RESISTOR, M 1KOHM, J, 1/10W	ERJ6GEYG102	
R2450	72000492	RESISTOR, M 56KOHM, J, 1/10W	ERJ6GEYJ563	
R2452	72000956	RESISTOR, M 47KOHM, J, 1/10W	ERJ6GEYF473	
R2453	72000959	RESISTOR, M 10KOHM, J, 1/10W	ERJ6GEYG103	
R2456	72000959	RESISTOR, M 10KOHM, J, 1/10W	ERJ6GEYG103	
R2457	72000954	RESISTOR, M 33KOHM, J, 1/10W	ERJ6GEYF333	
R2460	72000494	RESISTOR, M 18KOHM, 1/10W	ERJ6ENF1802	
R2461	72000495	RESISTOR, M 100 OHM, J, 1/10W	ERJ6GEYJ101	
R2462	72000495	RESISTOR, M 100 OHM, J, 1/10W	ERJ6GEYJ101	
R2463	72000496	RESISTOR, M 15KOHM, 1/10W	ERJ6ENF1502	
R2464	72000495	RESISTOR, M 100 OHM, J, 1/10W	ERJ6GEYJ101	
R2466	72000960	RESISTOR, M 100KOHM, J, 1/10W	ERJ6GEYG104	
R2467	72000470	RESISTOR, M 220KOHM, J, 1/10W	ERJ6GEYJ224	
R2468	72000955	RESISTOR, M 4.7KOHM, J, 1/10W	ERJ6GEYF472	
R2469	72000960	RESISTOR, M 100KOHM, J, 1/10W	ERJ6GEYG104	

Loc. No.	Part No	Description	Reference No.	Remarks
R2470	72000955	RESISTOR, M 4.7KOHM, J, 1/10W	ERJ6GEYF472	
R2471	72000967	RESISTOR, M 1.8KOHM, J, 1/10W	ERJ6GEYG182	
R2472	72000955	RESISTOR, M 4.7KOHM, J, 1/10W	ERJ6GEYF472	
R2473	72000967	RESISTOR, M 1.8KOHM, J, 1/10W	ERJ6GEYG182	
R2476	72000497	RESISTOR, M 22 OHM, J, 1/10W	ERJ6GEYJ220	
R2477	72000497	RESISTOR, M 22 OHM, J, 1/10W	ERJ6GEYJ220	
R2480	72000958	RESISTOR, M 1KOHM, J, 1/10W	ERJ6GEYG102	
R2481	72000965	RESISTOR, M 15KOHM, J, 1/10W	ERJ6GEYG153	
R2482	72000965	RESISTOR, M 15KOHM, J, 1/10W	ERJ6GEYG153	
R2483	72000958	RESISTOR, M 1KOHM, J, 1/10W	ERJ6GEYG102	
R2484	72000954	RESISTOR, M 33KOHM, J, 1/10W	ERJ6GEYF333	
R3001	72000500	RESISTOR, M 56 OHM, J, 1/10W	ERJ6GEYJ560	
R3002	72000500	RESISTOR, M 56 OHM, J, 1/10W	ERJ6GEYJ560	
R3003	72000500	RESISTOR, M 56 OHM, J, 1/10W	ERJ6GEYJ560	
R3004	72000500	RESISTOR, M 56 OHM, J, 1/10W	ERJ6GEYJ560	
R3007	72000500	RESISTOR, M 56 OHM, J, 1/10W	ERJ6GEYJ560	
R3009	72000500	RESISTOR, M 56 OHM, J, 1/10W	ERJ6GEYJ560	
R3010	72000500	RESISTOR, M 56 OHM, J, 1/10W	ERJ6GEYJ560	
R3011	72000500	RESISTOR, M 56 OHM, J, 1/10W	ERJ6GEYJ560	
R3012	72000500	RESISTOR, M 56 OHM, J, 1/10W	ERJ6GEYJ560	
R3013	72000500	RESISTOR, M 56 OHM, J, 1/10W	ERJ6GEYJ560	
R3014	72000500	RESISTOR, M 56 OHM, J, 1/10W	ERJ6GEYJ560	
R3015	72000500	RESISTOR, M 56 OHM, J, 1/10W	ERJ6GEYJ560	
R3016	72000473	RESISTOR, M 0 OHM, J, 1/10W	ERJ6GEY0R00	
R3017	72000473	RESISTOR, M 0 OHM, J, 1/10W	ERJ6GEY0R00	
R3018	72000473	RESISTOR, M 0 OHM, J, 1/10W	ERJ6GEY0R00	
R3019	72000473	RESISTOR, M 0 OHM, J, 1/10W	ERJ6GEY0R00	
R3020	72000473	RESISTOR, M 0 OHM, J, 1/10W	ERJ6GEY0R00	
R3021	72000473	RESISTOR, M 0 OHM, J, 1/10W	ERJ6GEY0R00	
R3022	72000975	RESISTOR, M 5.6KOHM, J, 1/10W	ERJ6GEYG562	
R3023	72000975	RESISTOR, M 5.6KOHM, J, 1/10W	ERJ6GEYG562	
R3024	72000473	RESISTOR, M 0 OHM, J, 1/10W	ERJ6GEY0R00	
R3025	72000473	RESISTOR, M 0 OHM, J, 1/10W	ERJ6GEY0R00	
R3026	72000473	RESISTOR, M 0 OHM, J, 1/10W	ERJ6GEY0R00	
R3027	72000473	RESISTOR, M 0 OHM, J, 1/10W	ERJ6GEY0R00	
R3028	72000473	RESISTOR, M 0 OHM, J, 1/10W	ERJ6GEY0R00	
R3029	72000473	RESISTOR, M 0 OHM, J, 1/10W	ERJ6GEY0R00	
R3030	72000975	RESISTOR, M 5.6KOHM, J, 1/10W	ERJ6GEYG562	
R3031	72000975	RESISTOR, M 5.6KOHM, J, 1/10W	ERJ6GEYG562	
R3032	72000972	RESISTOR, M 330 OHM, J, 1/10W	ERJ6GEYG331	

Loc. No.	Part No	Description	Reference No.	Remarks
R3033	72000972	RESISTOR, M 330 OHM, J, 1/10W	ERJ6GEYG331	
R3034	72000959	RESISTOR, M 10KOHM, J, 1/10W	ERJ6GEYG103	
R3035	72000959	RESISTOR, M 10KOHM, J, 1/10W	ERJ6GEYG103	
R3042	72000869	RESISTOR, M 33 OHM, J, 3W	ERG3FJ330H	
R3043	72000869	RESISTOR, M 33 OHM, J, 3W	ERG3FJ330H	
R3045	72000958	RESISTOR, M 1KOHM, J, 1/10W	ERJ6GEYG102	
R3046	72000956	RESISTOR, M 47KOHM, J, 1/10W	ERJ6GEYF473	
R3047	72000959	RESISTOR, M 10KOHM, J, 1/10W	ERJ6GEYG103	
R3048	72000983	RESISTOR, M 75 OHM, 1/8W	ERJ8ENF75R0	
R3049	72000983	RESISTOR, M 75 OHM, 1/8W	ERJ8ENF75R0	
R3050	72000983	RESISTOR, M 75 OHM, 1/8W	ERJ8ENF75R0	
R3051	72000473	RESISTOR, M 0 OHM, J, 1/10W	ERJ6GEY0R00	
R3052	72000473	RESISTOR, M 0 OHM, J, 1/10W	ERJ6GEY0R00	
R3053	72000473	RESISTOR, M 0 OHM, J, 1/10W	ERJ6GEY0R00	
R3054	72000495	RESISTOR, M 100 OHM, J, 1/10W	ERJ6GEYJ101	
R3055	72000495	RESISTOR, M 100 OHM, J, 1/10W	ERJ6GEYJ101	
R3056	72000495	RESISTOR, M 100 OHM, J, 1/10W	ERJ6GEYJ101	
R3057	72000495	RESISTOR, M 100 OHM, J, 1/10W	ERJ6GEYJ101	
R3058	72000495	RESISTOR, M 100 OHM, J, 1/10W	ERJ6GEYJ101	
R3059	72000495	RESISTOR, M 100 OHM, J, 1/10W	ERJ6GEYJ101	
R3060	72000963	RESISTOR, M 1.2KOHM, J, 1/10W	ERJ6GEYG122	
R3061	72000963	RESISTOR, M 1.2KOHM, J, 1/10W	ERJ6GEYG122	
R3062	72000963	RESISTOR, M 1.2KOHM, J, 1/10W	ERJ6GEYG122	
R3063	72000963	RESISTOR, M 1.2KOHM, J, 1/10W	ERJ6GEYG122	
R3064	72000495	RESISTOR, M 100 OHM, J, 1/10W	ERJ6GEYJ101	
R3065	72000495	RESISTOR, M 100 OHM, J, 1/10W	ERJ6GEYJ101	
R3066	72000963	RESISTOR, M 1.2KOHM, J, 1/10W	ERJ6GEYG122	
R3067	72000495	RESISTOR, M 100 OHM, J, 1/10W	ERJ6GEYJ101	
R3068	72000495	RESISTOR, M 100 OHM, J, 1/10W	ERJ6GEYJ101	
R3069	72000963	RESISTOR, M 1.2KOHM, J, 1/10W	ERJ6GEYG122	
R3070	72000495	RESISTOR, M 100 OHM, J, 1/10W	ERJ6GEYJ101	
R3071	72000495	RESISTOR, M 100 OHM, J, 1/10W	ERJ6GEYJ101	
R3075	72000962	RESISTOR, M 120 OHM, J, 1/10W	ERJ6GEYG121	
R3076	72000962	RESISTOR, M 120 OHM, J, 1/10W	ERJ6GEYG121	
R3077	72000962	RESISTOR, M 120 OHM, J, 1/10W	ERJ6GEYG121	
R3087	72000875	RESISTOR, M 10KOHM, J, 1/16W	ERJ3GEYJ103	
R3088	72000875	RESISTOR, M 10KOHM, J, 1/16W	ERJ3GEYJ103	
R3101	72000982	RESISTOR, M 330KOHM, J, 1/10W	ERJ6GEYJ334	
R3102	72000982	RESISTOR, M 330KOHM, J, 1/10W	ERJ6GEYJ334	
R3103	72000982	RESISTOR, M 330KOHM, J, 1/10W	ERJ6GEYJ334	

Loc. No.	Part No	Description	Reference No.	Remarks
R3104	72000982	RESISTOR, M 330KOHM, J, 1/10W	ERJ66EYJ334	
R3105	72000982	RESISTOR, M 330KOHM, J, 1/10W	ERJ66EYJ334	
R3106	72000982	RESISTOR, M 330KOHM, J, 1/10W	ERJ66EYJ334	
R3107	72000982	RESISTOR, M 330KOHM, J, 1/10W	ERJ66EYJ334	
R3108	72000982	RESISTOR, M 330KOHM, J, 1/10W	ERJ66EYJ334	
R3109	72000894	RESISTOR, M 47KOHM, J, 1/16W	ERJ36EYJ473	
R3301	72000499	RESISTOR, M 75 OHM, 1/10W	ERJ6ENF75R0	
R3303	72000875	RESISTOR, M 10KOHM, J, 1/16W	ERJ36EYJ103	
R3304	72000499	RESISTOR, M 75 OHM, 1/10W	ERJ6ENF75R0	
R3305	72000499	RESISTOR, M 75 OHM, 1/10W	ERJ6ENF75R0	
R3306	72000498	RESISTOR, M 180KOHM, J, 1/10W	ERJ66EYJ184	
R3307	72000876	RESISTOR, M 100KOHM, J, 1/16W	ERJ36EYJ104	
R3308	72000498	RESISTOR, M 180KOHM, J, 1/10W	ERJ66EYJ184	
R3309	72000873	RESISTOR, M 100 OHM, J, 1/16W	ERJ36EYJ101	
R3310	72000880	RESISTOR, M 15KOHM, J, 1/16W	ERJ36EYJ153	
R3311	72000888	RESISTOR, M 33KOHM, J, 1/16W	ERJ36EYJ333	
R3312	72000877	RESISTOR, M 12KOHM, J, 1/16W	ERJ36EYJ123	
R3313	72000897	RESISTOR, M 6.8KOHM, J, 1/16W	ERJ36EYJ682	
R3314	72000877	RESISTOR, M 12KOHM, J, 1/16W	ERJ36EYJ123	
R3315	72000897	RESISTOR, M 6.8KOHM, J, 1/16W	ERJ36EYJ682	
R3316	72000873	RESISTOR, M 100 OHM, J, 1/16W	ERJ36EYJ101	
R3317	72000873	RESISTOR, M 100 OHM, J, 1/16W	ERJ36EYJ101	
R3318	72000873	RESISTOR, M 100 OHM, J, 1/16W	ERJ36EYJ101	
R3319	72000874	RESISTOR, M 1KOHM, J, 1/16W	ERJ36EYJ102	
R3320	72000874	RESISTOR, M 1KOHM, J, 1/16W	ERJ36EYJ102	
R3321	72000874	RESISTOR, M 1KOHM, J, 1/16W	ERJ36EYJ102	
R3322	72000873	RESISTOR, M 100 OHM, J, 1/16W	ERJ36EYJ101	
R3323	72000955	RESISTOR, M 4.7KOHM, J, 1/10W	ERJ66EYF472	
R3324	72000495	RESISTOR, M 100 OHM, J, 1/10W	ERJ66EYJ101	
R3325	72000873	RESISTOR, M 100 OHM, J, 1/16W	ERJ36EYJ101	
R3326	72000873	RESISTOR, M 100 OHM, J, 1/16W	ERJ36EYJ101	
R3327	72000873	RESISTOR, M 100 OHM, J, 1/16W	ERJ36EYJ101	
R3328	72000875	RESISTOR, M 10KOHM, J, 1/16W	ERJ36EYJ103	
R3329	72000875	RESISTOR, M 10KOHM, J, 1/16W	ERJ36EYJ103	
R3330	72000875	RESISTOR, M 10KOHM, J, 1/16W	ERJ36EYJ103	
R3331	72000875	RESISTOR, M 10KOHM, J, 1/16W	ERJ36EYJ103	
R3332	72000873	RESISTOR, M 100 OHM, J, 1/16W	ERJ36EYJ101	
R3333	72000873	RESISTOR, M 100 OHM, J, 1/16W	ERJ36EYJ101	
R3334	72000875	RESISTOR, M 10KOHM, J, 1/16W	ERJ36EYJ103	
R3335	72000874	RESISTOR, M 1KOHM, J, 1/16W	ERJ36EYJ102	

Loc. No.	Part No	Description	Reference No.	Remarks
R3336	72000873	RESISTOR, M 100 OHM, J, 1/16W	ERJ36EYJ101	
R3337	72000750	RESISTOR, M 1KOHM, 1/10W	ERJ6ENF1001	
R3338	72000874	RESISTOR, M 1KOHM, J, 1/16W	ERJ36EYJ102	
R3339	72000874	RESISTOR, M 1KOHM, J, 1/16W	ERJ36EYJ102	
R3340	72000951	RESISTOR, M 931 OHM, 1/10W	ERJ6ENF9310	
R3341	72000873	RESISTOR, M 100 OHM, J, 1/16W	ERJ36EYJ101	
R3342	72000880	RESISTOR, M 15KOHM, J, 1/16W	ERJ36EYJ153	
R3343	72000888	RESISTOR, M 33KOHM, J, 1/16W	ERJ36EYJ333	
R3344	72000873	RESISTOR, M 100 OHM, J, 1/16W	ERJ36EYJ101	
R3345	72000874	RESISTOR, M 1KOHM, J, 1/16W	ERJ36EYJ102	
R3346	72000873	RESISTOR, M 100 OHM, J, 1/16W	ERJ36EYJ101	
R3347	72000873	RESISTOR, M 100 OHM, J, 1/16W	ERJ36EYJ101	
R3348	72000873	RESISTOR, M 100 OHM, J, 1/16W	ERJ36EYJ101	
R3349	72000875	RESISTOR, M 10KOHM, J, 1/16W	ERJ36EYJ103	
R3350	72000875	RESISTOR, M 10KOHM, J, 1/16W	ERJ36EYJ103	
R3351	72000498	RESISTOR, M 180KOHM, J, 1/10W	ERJ66EYJ184	
R3352	72000498	RESISTOR, M 180KOHM, J, 1/10W	ERJ66EYJ184	
R3353	72000499	RESISTOR, M 75 OHM, 1/10W	ERJ6ENF75R0	
R3354	72000499	RESISTOR, M 75 OHM, 1/10W	ERJ6ENF75R0	
R3355	72000499	RESISTOR, M 75 OHM, 1/10W	ERJ6ENF75R0	
R3356	72000955	RESISTOR, M 4.7KOHM, J, 1/10W	ERJ66EYF472	
R3357	72000955	RESISTOR, M 4.7KOHM, J, 1/10W	ERJ66EYF472	
R3358	72000873	RESISTOR, M 100 OHM, J, 1/16W	ERJ36EYJ101	
R3359	72000873	RESISTOR, M 100 OHM, J, 1/16W	ERJ36EYJ101	
R3360	72000873	RESISTOR, M 100 OHM, J, 1/16W	ERJ36EYJ101	
R3361	72000873	RESISTOR, M 100 OHM, J, 1/16W	ERJ36EYJ101	
R3362	72000876	RESISTOR, M 100KOHM, J, 1/16W	ERJ36EYJ104	
R3363	72000876	RESISTOR, M 100KOHM, J, 1/16W	ERJ36EYJ104	
R3364	72000873	RESISTOR, M 100 OHM, J, 1/16W	ERJ36EYJ101	
R3365	72000874	RESISTOR, M 1KOHM, J, 1/16W	ERJ36EYJ102	
R3366	72000893	RESISTOR, M 4.7KOHM, J, 1/16W	ERJ36EYJ472	
R3367	72000893	RESISTOR, M 4.7KOHM, J, 1/16W	ERJ36EYJ472	
R3368	72000873	RESISTOR, M 100 OHM, J, 1/16W	ERJ36EYJ101	
R3369	72000875	RESISTOR, M 10KOHM, J, 1/16W	ERJ36EYJ103	
R3370	72000875	RESISTOR, M 10KOHM, J, 1/16W	ERJ36EYJ103	
R3371	72000875	RESISTOR, M 10KOHM, J, 1/16W	ERJ36EYJ103	
R3372	72000875	RESISTOR, M 10KOHM, J, 1/16W	ERJ36EYJ103	
R3373	72000876	RESISTOR, M 100KOHM, J, 1/16W	ERJ36EYJ104	
R3374	72000876	RESISTOR, M 100KOHM, J, 1/16W	ERJ36EYJ104	
R3375	72000873	RESISTOR, M 100 OHM, J, 1/16W	ERJ36EYJ101	

Loc. No.	Part No	Description	Reference No.	Remarks
R3376	72000873	RESISTOR, M 100 OHM, J, 1/16W	ERJ3GEYJ101	
R3377	72000873	RESISTOR, M 100 OHM, J, 1/16W	ERJ3GEYJ101	
R3378	72000891	RESISTOR, M 3.3 OHM, J, 1/16W	ERJ3GEYJ3R3	
R3379	72000891	RESISTOR, M 3.3 OHM, J, 1/16W	ERJ3GEYJ3R3	
R3380	72000874	RESISTOR, M 1KOHM, J, 1/16W	ERJ3GEYJ102	
R3381	72000874	RESISTOR, M 1KOHM, J, 1/16W	ERJ3GEYJ102	
R3382	72000874	RESISTOR, M 1KOHM, J, 1/16W	ERJ3GEYJ102	
R3383	72000873	RESISTOR, M 100 OHM, J, 1/16W	ERJ3GEYJ101	
R3384	72000873	RESISTOR, M 100 OHM, J, 1/16W	ERJ3GEYJ101	
R3385	72000873	RESISTOR, M 100 OHM, J, 1/16W	ERJ3GEYJ101	
R3386	72000876	RESISTOR, M 100KOHM, J, 1/16W	ERJ3GEYJ104	
R3387	72000876	RESISTOR, M 100KOHM, J, 1/16W	ERJ3GEYJ104	
R3388	72000873	RESISTOR, M 100 OHM, J, 1/16W	ERJ3GEYJ101	
R3389	72000893	RESISTOR, M 4.7KOHM, J, 1/16W	ERJ3GEYJ472	
R3390	72000893	RESISTOR, M 4.7KOHM, J, 1/16W	ERJ3GEYJ472	
R3391	72000874	RESISTOR, M 1KOHM, J, 1/16W	ERJ3GEYJ102	
R3392	72000873	RESISTOR, M 100 OHM, J, 1/16W	ERJ3GEYJ101	
R3393	72000891	RESISTOR, M 3.3 OHM, J, 1/16W	ERJ3GEYJ3R3	
R3394	72000891	RESISTOR, M 3.3 OHM, J, 1/16W	ERJ3GEYJ3R3	
R3395	72000873	RESISTOR, M 100 OHM, J, 1/16W	ERJ3GEYJ101	
R3396	72000874	RESISTOR, M 1KOHM, J, 1/16W	ERJ3GEYJ102	
R3400	72000959	RESISTOR, M 10KOHM, J, 1/10W	ERJ6GEYJ103	
R3501	72000883	RESISTOR, M 220 OHM, J, 1/16W	ERJ3GEYJ221	
R3502	72000883	RESISTOR, M 220 OHM, J, 1/16W	ERJ3GEYJ221	
R3503	72000883	RESISTOR, M 220 OHM, J, 1/16W	ERJ3GEYJ221	
R3504	72000890	RESISTOR, M 39KOHM, J, 1/16W	ERJ3GEYJ393	
R3505	72000875	RESISTOR, M 10KOHM, J, 1/16W	ERJ3GEYJ103	
R3506	72000881	RESISTOR, M 18KOHM, J, 1/16W	ERJ3GEYJ183	
R3507	72000887	RESISTOR, M 3.3KOHM, J, 1/16W	ERJ3GEYJ332	
R3508	72000955	RESISTOR, M 4.7KOHM, J, 1/10W	ERJ6GEYF472	
R3509	72000955	RESISTOR, M 4.7KOHM, J, 1/10W	ERJ6GEYF472	
R3510	72000495	RESISTOR, M 100 OHM, J, 1/10W	ERJ6GEYJ101	
R3511	72000495	RESISTOR, M 100 OHM, J, 1/10W	ERJ6GEYJ101	CIRCUIT BOARD HX
R3511	72000873	RESISTOR, M 100 OHM, J, 1/16W	ERJ3GEYJ101	CIRCUIT BOARD HZ
R3513	72000873	RESISTOR, M 100 OHM, J, 1/16W	ERJ3GEYJ101	
R3514	72000873	RESISTOR, M 100 OHM, J, 1/16W	ERJ3GEYJ101	
R3516	72000882	RESISTOR, M 22 OHM, J, 1/16W	ERJ3GEYJ220	
R3517	72000882	RESISTOR, M 22 OHM, J, 1/16W	ERJ3GEYJ220	
R3518	72000875	RESISTOR, M 10KOHM, J, 1/16W	ERJ3GEYJ103	
R3519	72000875	RESISTOR, M 10KOHM, J, 1/16W	ERJ3GEYJ103	

Loc. No.	Part No	Description	Reference No.	Remarks
R3520	72000875	RESISTOR, M 10KOHM, J, 1/16W	ERJ3GEYJ103	
R3521	72000875	RESISTOR, M 10KOHM, J, 1/16W	ERJ3GEYJ103	
R3522	72000875	RESISTOR, M 10KOHM, J, 1/16W	ERJ3GEYJ103	
R3526	72000499	RESISTOR, M 75 OHM, 1/10W	ERJ6ENF75R0	
R3527	72000499	RESISTOR, M 75 OHM, 1/10W	ERJ6ENF75R0	
R3528	72000499	RESISTOR, M 75 OHM, 1/10W	ERJ6ENF75R0	
R3529	72000498	RESISTOR, M 180KOHM, J, 1/10W	ERJ6GEYJ184	
R3530	72000498	RESISTOR, M 180KOHM, J, 1/10W	ERJ6GEYJ184	
R3532	72000473	RESISTOR, M 0 OHM, J, 1/10W	ERJ6GEY0R00	
R3533	72000473	RESISTOR, M 0 OHM, J, 1/10W	ERJ6GEY0R00	
R3534	72000473	RESISTOR, M 0 OHM, J, 1/10W	ERJ6GEY0R00	
R3535	72000972	RESISTOR, M 330 OHM, J, 1/10W	ERJ6GEY6331	
R3536	72000972	RESISTOR, M 330 OHM, J, 1/10W	ERJ6GEY6331	
R3537	72000473	RESISTOR, M 0 OHM, J, 1/10W	ERJ6GEY0R00	CIRCUIT BOARD HX
R3537	72000972	RESISTOR, M 330 OHM, J, 1/10W	ERJ6GEY6331	CIRCUIT BOARD HZ
R3538	72000473	RESISTOR, M 0 OHM, J, 1/10W	ERJ6GEY0R00	CIRCUIT BOARD HX
R3538	72000499	RESISTOR, M 75 OHM, 1/10W	ERJ6ENF75R0	CIRCUIT BOARD HZ
R3539	72000499	RESISTOR, M 75 OHM, 1/10W	ERJ6ENF75R0	
R3540	72000473	RESISTOR, M 0 OHM, J, 1/10W	ERJ6GEY0R00	CIRCUIT BOARD HX
R3540	72000499	RESISTOR, M 75 OHM, 1/10W	ERJ6ENF75R0	CIRCUIT BOARD HZ
R3541	72000875	RESISTOR, M 10KOHM, J, 1/16W	ERJ3GEYJ103	
R3547	72000495	RESISTOR, M 100 OHM, J, 1/10W	ERJ6GEYJ101	
R3548	72000495	RESISTOR, M 100 OHM, J, 1/10W	ERJ6GEYJ101	
R3549	72000750	RESISTOR, M 1KOHM, 1/10W	ERJ6ENF1001	
R3550	72000750	RESISTOR, M 1KOHM, 1/10W	ERJ6ENF1001	
R3577	72000965	RESISTOR, M 15KOHM, J, 1/10W	ERJ6GEY6153	
R3578	72000954	RESISTOR, M 33KOHM, J, 1/10W	ERJ6GEYF333	
R3579	72000965	RESISTOR, M 15KOHM, J, 1/10W	ERJ6GEY6153	
R3580	72000954	RESISTOR, M 33KOHM, J, 1/10W	ERJ6GEYF333	
R3581	72000965	RESISTOR, M 15KOHM, J, 1/10W	ERJ6GEY6153	
R3582	72000954	RESISTOR, M 33KOHM, J, 1/10W	ERJ6GEYF333	
R3585	72000500	RESISTOR, M 56 OHM, J, 1/10W	ERJ6GEYJ560	
R3586	72000500	RESISTOR, M 56 OHM, J, 1/10W	ERJ6GEYJ560	
R3589	72000956	RESISTOR, M 47KOHM, J, 1/10W	ERJ6GEYF473	
R3590	72000500	RESISTOR, M 56 OHM, J, 1/10W	ERJ6GEYJ560	
R3595	72000958	RESISTOR, M 1KOHM, J, 1/10W	ERJ6GEY6102	
R3596	72000958	RESISTOR, M 1KOHM, J, 1/10W	ERJ6GEY6102	
R3597	72000958	RESISTOR, M 1KOHM, J, 1/10W	ERJ6GEY6102	
R3599	72000495	RESISTOR, M 100 OHM, J, 1/10W	ERJ6GEYJ101	
R3603	72000495	RESISTOR, M 100 OHM, J, 1/10W	ERJ6GEYJ101	

Loc. No.	Part No	Description	Reference No.	Remarks
R3604	72000495	RESISTOR, M 100 OHM, J, 1/10W	ERJ66EYJ101	
R3611	72000955	RESISTOR, M 4.7KOHM, J, 1/10W	ERJ66EYF472	
R3612	72000955	RESISTOR, M 4.7KOHM, J, 1/10W	ERJ66EYF472	
R3613	72000955	RESISTOR, M 4.7KOHM, J, 1/10W	ERJ66EYF472	
R3614	72000955	RESISTOR, M 4.7KOHM, J, 1/10W	ERJ66EYF472	
R3626	72000929	RESISTOR, M 3.3KOHM, J, 1/10W	ERJ66EYJ3R3	
R3627	72000929	RESISTOR, M 3.3KOHM, J, 1/10W	ERJ66EYJ3R3	
R3628	72000929	RESISTOR, M 3.3KOHM, J, 1/10W	ERJ66EYJ3R3	
R3629	72000929	RESISTOR, M 3.3KOHM, J, 1/10W	ERJ66EYJ3R3	
R3653	72000965	RESISTOR, M 15KOHM, J, 1/10W	ERJ66EYG153	
R3654	72000954	RESISTOR, M 33KOHM, J, 1/10W	ERJ66EYF333	
R3655	72000965	RESISTOR, M 15KOHM, J, 1/10W	ERJ66EYG153	
R3656	72000954	RESISTOR, M 33KOHM, J, 1/10W	ERJ66EYF333	
R3663	72000958	RESISTOR, M 1KOHM, J, 1/10W	ERJ66EYG102	
R3664	72000958	RESISTOR, M 1KOHM, J, 1/10W	ERJ66EYG102	
R3668	72000495	RESISTOR, M 100 OHM, J, 1/10W	ERJ66EYJ101	
R3672	72000495	RESISTOR, M 100 OHM, J, 1/10W	ERJ66EYJ101	
R3755	72000495	RESISTOR, M 100 OHM, J, 1/10W	ERJ66EYJ101	
R3756	72000495	RESISTOR, M 100 OHM, J, 1/10W	ERJ66EYJ101	
R3764	72000495	RESISTOR, M 100 OHM, J, 1/10W	ERJ66EYJ101	
R3765	72000495	RESISTOR, M 100 OHM, J, 1/10W	ERJ66EYJ101	
R3766	72000495	RESISTOR, M 100 OHM, J, 1/10W	ERJ66EYJ101	
R3776	72000495	RESISTOR, M 100 OHM, J, 1/10W	ERJ66EYJ101	
R3777	72000495	RESISTOR, M 100 OHM, J, 1/10W	ERJ66EYJ101	
R3778	72000956	RESISTOR, M 47KOHM, J, 1/10W	ERJ66EYF473	
R3801	72000883	RESISTOR, M 220 OHM, J, 1/16W	ERJ3GEYJ221	
R3802	72000883	RESISTOR, M 220 OHM, J, 1/16W	ERJ3GEYJ221	
R3803	72000957	RESISTOR, M 560 OHM, J, 1/10W	ERJ66EYF561	
R3804	72000957	RESISTOR, M 560 OHM, J, 1/10W	ERJ66EYF561	
R3805	72000972	RESISTOR, M 330 OHM, J, 1/10W	ERJ66EYG331	
R3806	72000883	RESISTOR, M 220 OHM, J, 1/16W	ERJ3GEYJ221	
R3808	72000886	RESISTOR, M 330 OHM, J, 1/16W	ERJ3GEYJ331	
R3809	72000874	RESISTOR, M 1KOHM, J, 1/16W	ERJ3GEYJ102	
R3810	72000750	RESISTOR, M 1KOHM, 1/10W	ERJ6ENF1001	
R3811	72000902	RESISTOR, M 220 OHM, 1/10W	ERJ6ENF2200	
R3812	72000607	RESISTOR, M 330 OHM, 1/10W	ERJ6ENF3300	
R3813	72000949	RESISTOR, M 6.8KOHM, 1/10W	ERJ6ENF6801	
R3814	72000593	RESISTOR, M 10KOHM, 1/10W	ERJ6ENF1002	
R3815	72000902	RESISTOR, M 220 OHM, 1/10W	ERJ6ENF2200	
R3816	72000972	RESISTOR, M 330 OHM, J, 1/10W	ERJ66EYG331	

Loc. No.	Part No	Description	Reference No.	Remarks
R3817	72000895	RESISTOR, M 560 OHM, J, 1/16W	ERJ3GEYJ561	
R3818	72000872	RESISTOR, M 0 OHM, 1/16W	ERJ3GEY0R00	
R3819	72000897	RESISTOR, M 6.8KOHM, J, 1/16W	ERJ3GEYJ682	
R3820	72000957	RESISTOR, M 560 OHM, J, 1/10W	ERJ66EYF561	
R3821	72000884	RESISTOR, M 2.2KOHM, J, 1/16W	ERJ3GEYJ222	
R3822	72000897	RESISTOR, M 6.8KOHM, J, 1/16W	ERJ3GEYJ682	
R3823	72000872	RESISTOR, M 0 OHM, 1/16W	ERJ3GEY0R00	
R3824	72000883	RESISTOR, M 220 OHM, J, 1/16W	ERJ3GEYJ221	
R3825	72000872	RESISTOR, M 0 OHM, 1/16W	ERJ3GEY0R00	
R3826	72000900	RESISTOR, M 150 OHM, 1/10W	ERJ6ENF1500	
R3827	72000893	RESISTOR, M 4.7KOHM, J, 1/16W	ERJ3GEYJ472	
R3828	72000947	RESISTOR, M 47 OHM, 1/10W	ERJ6ENF47R0	
R3829	72000873	RESISTOR, M 100 OHM, J, 1/16W	ERJ3GEYJ101	
R3830	72000882	RESISTOR, M 22 OHM, J, 1/16W	ERJ3GEYJ220	
R3831	72000882	RESISTOR, M 22 OHM, J, 1/16W	ERJ3GEYJ220	
R3832	72000947	RESISTOR, M 47 OHM, 1/10W	ERJ6ENF47R0	
R3833	72000873	RESISTOR, M 100 OHM, J, 1/16W	ERJ3GEYJ101	
R3834	72000947	RESISTOR, M 47 OHM, 1/10W	ERJ6ENF47R0	
R3835	72000893	RESISTOR, M 4.7KOHM, J, 1/16W	ERJ3GEYJ472	
R3836	72000872	RESISTOR, M 0 OHM, 1/16W	ERJ3GEY0R00	
R3837	72000989	RESISTOR, RESISTOR ARRAY	EXB38V471J	
R3838	72000989	RESISTOR, RESISTOR ARRAY	EXB38V471J	
R3839	72000989	RESISTOR, RESISTOR ARRAY	EXB38V471J	
R3840	72000989	RESISTOR, RESISTOR ARRAY	EXB38V471J	
R3841	72000892	RESISTOR, M 470 OHM, J, 1/16W	ERJ3GEYJ471	
R3842	72000887	RESISTOR, M 3.3KOHM, J, 1/16W	ERJ3GEYJ332	
R3843	72000892	RESISTOR, M 470 OHM, J, 1/16W	ERJ3GEYJ471	
R3845	72000873	RESISTOR, M 100 OHM, J, 1/16W	ERJ3GEYJ101	
R3846	72000495	RESISTOR, M 100 OHM, J, 1/10W	ERJ66EYJ101	
R3848	72000893	RESISTOR, M 4.7KOHM, J, 1/16W	ERJ3GEYJ472	
R3849	72000945	RESISTOR, M 300 OHM, 1/10W	ERJ6ENF3000	
R3850	72000900	RESISTOR, M 150 OHM, 1/10W	ERJ6ENF1500	
R3851	72000872	RESISTOR, M 0 OHM, 1/16W	ERJ3GEY0R00	
R3852	72000589	RESISTOR, M 4.7KOHM, 1/10W	ERJ6ENF4701	
R3853	72000895	RESISTOR, M 560 OHM, J, 1/16W	ERJ3GEYJ561	
R3854	72000904	RESISTOR, M 240 OHM, 1/10W	ERJ6ENF2400	
R3855	72000944	RESISTOR, M 2.7KOHM, 1/10W	ERJ6ENF2701	
R3856	72000904	RESISTOR, M 240 OHM, 1/10W	ERJ6ENF2400	
R3857	72000944	RESISTOR, M 2.7KOHM, 1/10W	ERJ6ENF2701	
R3858	72000904	RESISTOR, M 240 OHM, 1/10W	ERJ6ENF2400	

Loc. No.	Part No	Description	Reference No.	Remarks
R3859	72000878	RESISTOR, M 150 OHM, J, 1/16W	ERJ3GEYJ151	
R3860	72000889	RESISTOR, M 390 OHM, J, 1/16W	ERJ3GEYJ391	
R3861	72000885	RESISTOR, M 2.7KOHM, J, 1/16W	ERJ3GEYJ272	
R3862	72000886	RESISTOR, M 330 OHM, J, 1/16W	ERJ3GEYJ331	
R3863	72000885	RESISTOR, M 2.7KOHM, J, 1/16W	ERJ3GEYJ272	
R3864	72000885	RESISTOR, M 2.7KOHM, J, 1/16W	ERJ3GEYJ272	
R3865	72000883	RESISTOR, M 220 OHM, J, 1/16W	ERJ3GEYJ221	
R3866	72000872	RESISTOR, M 0 OHM, 1/16W	ERJ3GEY0R00	
R3867	72000873	RESISTOR, M 100 OHM, J, 1/16W	ERJ3GEYJ101	
R3868	72000873	RESISTOR, M 100 OHM, J, 1/16W	ERJ3GEYJ101	
R3869	72000873	RESISTOR, M 100 OHM, J, 1/16W	ERJ3GEYJ101	
R3870	72000899	RESISTOR, M 82KOHM, J, 1/16W	ERJ3GEYJ823	
R3871	72000875	RESISTOR, M 10KOHM, J, 1/16W	ERJ3GEYJ103	
R3872	72000896	RESISTOR, M 68 OHM, J, 1/16W	ERJ3GEYJ680	
R3873	72000879	RESISTOR, M 1.5KOHM, J, 1/16W	ERJ3GEYJ152	
R3874	72000892	RESISTOR, M 470 OHM, J, 1/16W	ERJ3GEYJ471	
R3875	72000879	RESISTOR, M 1.5KOHM, J, 1/16W	ERJ3GEYJ152	
R3876	72000879	RESISTOR, M 1.5KOHM, J, 1/16W	ERJ3GEYJ152	
R3877	72000892	RESISTOR, M 470 OHM, J, 1/16W	ERJ3GEYJ471	
R3879	72000879	RESISTOR, M 1.5KOHM, J, 1/16W	ERJ3GEYJ152	
R3881	72000874	RESISTOR, M 1KOHM, J, 1/16W	ERJ3GEYJ102	
R3884	72000898	RESISTOR, M 82 OHM, J, 1/16W	ERJ3GEYJ820	
R3885	72000898	RESISTOR, M 82 OHM, J, 1/16W	ERJ3GEYJ820	
R3886	72000898	RESISTOR, M 82 OHM, J, 1/16W	ERJ3GEYJ820	
R3887	72000873	RESISTOR, M 100 OHM, J, 1/16W	ERJ3GEYJ101	
R3888	72000872	RESISTOR, M 0 OHM, 1/16W	ERJ3GEY0R00	
R3890	72000473	RESISTOR, M 0 OHM, J, 1/10W	ERJ6GEY0R00	
R3891	72000495	RESISTOR, M 100 OHM, J, 1/10W	ERJ6GEYJ101	
R3892	72000956	RESISTOR, M 47KOHM, J, 1/10W	ERJ6GEYF473	
R3893	72000958	RESISTOR, M 1KOHM, J, 1/10W	ERJ6GEYG102	
R3894	72000959	RESISTOR, M 10KOHM, J, 1/10W	ERJ6GEYG103	
R3895	72000955	RESISTOR, M 4.7KOHM, J, 1/10W	ERJ6GEYF472	
R402	72000524	RESISTOR, C 2.2KOHM, J, 1/2W	ERDS1FJ222	
R403	72000506	RESISTOR, F 6.8 OHM, J, 7W	TARAFR06R8JC	
R404	72000506	RESISTOR, F 6.8 OHM, J, 7W	TARAFR06R8JC	
R405	72000506	RESISTOR, F 6.8 OHM, J, 7W	TARAFR06R8JC	
R406	72000506	RESISTOR, F 6.8 OHM, J, 7W	TARAFR06R8JC	
R407	72000507	RESISTOR, C 820KOHM, J, 1/2W	ERDS1FJ824	
R408	72000507	RESISTOR, C 820KOHM, J, 1/2W	ERDS1FJ824	
R409	72000510	RESISTOR, M 33KOHM, J, 3W	ERG3FJS333D	

Loc. No.	Part No	Description	Reference No.	Remarks
R410	72000510	RESISTOR, M 33KOHM, J, 3W	ERG3FJS333D	
R411	72000515	RESISTOR, C 220 OHM, J, 1/2W	ERDS1FJ221	
R412	72000866	RESISTOR, M 22 OHM, J, 2W	ERG2FJS220D	
R415	72000513	RESISTOR, C 10 OHM, J, 1/2W	ERDS1FJ100	
R416	72000847	RESISTOR, C 10KOHM, J, 1/4W	ERDS2FJ103	
R417	72000513	RESISTOR, C 10 OHM, J, 1/2W	ERDS1FJ100	
R418	72000511	RESISTOR, C 10KOHM, J, 1/2W	ERDS1FJ103	
R419	72000850	RESISTOR, C 22KOHM, J, 1/4W	ERDS2FJ223	
R420	72000511	RESISTOR, C 10KOHM, J, 1/2W	ERDS1FJ103	
R421	72000516	RESISTOR, W 0.1 OHM, 5W	ERF5EKR10	
R422	72000517	RESISTOR, W0.15 OHM, 5W	ERF5EKR15	
R423	72000521	RESISTOR, C 100 OHM, J, 1/2W	ERDS1FJ101	
R424	72000868	RESISTOR, M 82KOHM, J, 3W	ERG2FJS823D	
R425	72000868	RESISTOR, M 82KOHM, J, 3W	ERG2FJS823D	
R426	72000563	RESISTOR, CONTROL 20KOHMB 0.3W	EVMEASA00B24	
R427	72000508	RESISTOR, M 182KOHM, F, 1/4W	ER0S2CKF1823	
R428	72000509	RESISTOR, M 150KOHM, F, 1/4W	ER0S2CKF1503	
R429	72000508	RESISTOR, M 182KOHM, F, 1/4W	ER0S2CKF1823	
R430	72000522	RESISTOR, C 22 OHM, J, 1/2W	ERDS1FJ220	
R431	72000519	RESISTOR, M 162KOHM, F, 1/4W	ER0S2CKF1623	
R432	72000522	RESISTOR, C 22 OHM, J, 1/2W	ERDS1FJ220	
R433	72000508	RESISTOR, M 182KOHM, F, 1/4W	ER0S2CKF1823	
R434	72000519	RESISTOR, M 162KOHM, F, 1/4W	ER0S2CKF1623	
R435	72000511	RESISTOR, C 10KOHM, J, 1/2W	ERDS1FJ103	
R436	72000511	RESISTOR, C 10KOHM, J, 1/2W	ERDS1FJ103	
R437	72000844	RESISTOR, C 330 OHM, J, 1/2W	ERDS1FJ331	
R438	72000514	RESISTOR, M 82 OHM, J, 2W	ERG2FJS820D	
R439	72000985	RESISTOR, M 2.7 OHM, J, 2W	ERX2FJS2R7D	
R440	72000530	RESISTOR, M0.22 OHM, J, 2W	ERX2FJSR22D	
R441	72000526	RESISTOR, M 47KOHM, J, 5W	ERG5FJ473H	
R442	72000526	RESISTOR, M 47KOHM, J, 5W	ERG5FJ473H	
R443	72000847	RESISTOR, C 10KOHM, J, 1/4W	ERDS2FJ103	
R444	72000530	RESISTOR, M0.22 OHM, J, 2W	ERX2FJSR22D	
R445	72000527	RESISTOR, M 82KOHM, J, 3W	ERG3FJS823D	
R446	72000528	RESISTOR, M 100KOHM, J, 1W	ERG1FJS104D	
R447	72000527	RESISTOR, M 82KOHM, J, 3W	ERG3FJS823D	
R449	72000845	RESISTOR, C 100 OHM, J, 1/4W	ERDS2FJ101	
R450	72000986	RESISTOR, M0.33 OHM, J, 2W	ERX2FJSR33D	
R451	72000859	RESISTOR, C 6.8 OHM, J, 1/4W	ERDS2FJ6R8	
R452	72000986	RESISTOR, M0.33 OHM, J, 2W	ERX2FJSR33D	

Loc. No.	Part No	Description	Reference No.	Remarks
R453	72000857	RESISTOR, C 560 OHM, J, 1/4W	ERDS2FJ561	
R454	72000859	RESISTOR, C 6.8 OHM, J, 1/4W	ERDS2FJ6R8	
R455	72000846	RESISTOR, C 1KOHM, J, 1/4W	ERDS2FJ102	
R458	72000569	RESISTOR, F 220 OHM, J, 1/4W	ERQ14AJ221P	
R460	72000868	RESISTOR, M 82KOHM, J, 3W	ERG2FJS823D	
R461	72000537	RESISTOR, M 18KOHM, J, 2W	ERG2FJS183D	
R462	72000515	RESISTOR, C 220 OHM, J, 1/2W	ERDS1FJ221	
R463	72000537	RESISTOR, M 18KOHM, J, 2W	ERG2FJS183D	
R465	72000847	RESISTOR, C 10KOHM, J, 1/4W	ERDS2FJ103	
R466	72000852	RESISTOR, C 3.3KOHM, J, 1/4W	ERDS2FJ332	
R467	72000850	RESISTOR, C 22KOHM, J, 1/4W	ERDS2FJ223	
R468	72000533	RESISTOR, C 390 OHM, J, 1/2W	ERDS1FJ391	
R469	72000527	RESISTOR, M 82KOHM, J, 3W	ERG3FJS823D	
R470	72000845	RESISTOR, C 100 OHM, J, 1/4W	ERDS2FJ101	
R471	72000846	RESISTOR, C 1KOHM, J, 1/4W	ERDS2FJ102	
R472	72000848	RESISTOR, C 100KOHM, J, 1/4W	ERDS2FJ104	
R473	72000848	RESISTOR, C 100KOHM, J, 1/4W	ERDS2FJ104	
R474	72000566	RESISTOR, M 470 OHM, J, 2W	ERG2FJS471D	
R475	72000566	RESISTOR, M 470 OHM, J, 2W	ERG2FJS471D	
R476	72000838	RESISTOR, M 11KOHM, F, 1/4W	ER0S2CKF1102	
R477	72000850	RESISTOR, C 22KOHM, J, 1/4W	ERDS2FJ223	
R478	72000545	RESISTOR, M2.55KOHM, F, 1/4W	ER0S2CKF2551	
R479	72000846	RESISTOR, C 1KOHM, J, 1/4W	ERDS2FJ102	
R480	72000867	RESISTOR, M 82KOHM, J, 3W	ERG2FJS472D	
R482	72000855	RESISTOR, C 4.7KOHM, J, 1/4W	ERDS2FJ472	
R483	72000850	RESISTOR, C 22KOHM, J, 1/4W	ERDS2FJ223	
R484	72000856	RESISTOR, C 47KOHM, J, 1/4W	ERDS2FJ473	
R485	72000847	RESISTOR, C 10KOHM, J, 1/4W	ERDS2FJ103	
R486	72000856	RESISTOR, C 47KOHM, J, 1/4W	ERDS2FJ473	
R487	72000850	RESISTOR, C 22KOHM, J, 1/4W	ERDS2FJ223	
R492	72000848	RESISTOR, C 100KOHM, J, 1/4W	ERDS2FJ104	
R493	72000871	RESISTOR, M 10KOHM, J, 3W	ERG3FJS103D	
R494	72000840	RESISTOR, M4.22KOHM, F, 1/4W	ER0S2CKF4221	
R495	72000562	RESISTOR, M 383 OHM, F, 1/4W	ER0S2CKF3830	
R496	72000841	RESISTOR, M 56KOHM, F, 1/4W	ER0S2CKF5602	
R497	72000842	RESISTOR, M64.9KOHM, F, 1/4W	ER0S2CKF6492	
R498	72000548	RESISTOR, CONTROL 50KOHMB 0.3W	EVMEASA00B54	
R499	72000861	RESISTOR, C 2.7KOHM, J, 1/4W	ERDS2TJ272	
R500	72000850	RESISTOR, C 22KOHM, J, 1/4W	ERDS2FJ223	
R501	72000545	RESISTOR, M2.55KOHM, F, 1/4W	ER0S2CKF2551	

Loc. No.	Part No	Description	Reference No.	Remarks
R502	72000855	RESISTOR, C 4.7KOHM, J, 1/4W	ERDS2FJ472	
R503	72000847	RESISTOR, C 10KOHM, J, 1/4W	ERDS2FJ103	
R504	72000847	RESISTOR, C 10KOHM, J, 1/4W	ERDS2FJ103	
R505	72000865	RESISTOR, M 68KOHM, J, 1W	ERG1FJS683D	
R506	72000850	RESISTOR, C 22KOHM, J, 1/4W	ERDS2FJ223	
R508	72000853	RESISTOR, C 47 OHM, J, 1/4W	ERDS2FJ470	
R511	72000848	RESISTOR, C 100KOHM, J, 1/4W	ERDS2FJ104	
R512	72000855	RESISTOR, C 4.7KOHM, J, 1/4W	ERDS2FJ472	
R513	72000862	RESISTOR, C 510 OHM, J, 1/4W	ERDS2TJ511	
R514	72000541	RESISTOR, C 22 OHM, J, 1/4W	ERDS2TJ220	
R516	72000852	RESISTOR, C 3.3KOHM, J, 1/4W	ERDS2FJ332	
R518	72000841	RESISTOR, M 56KOHM, F, 1/4W	ER0S2CKF5602	
R519	72000552	RESISTOR, CONTROL 10KOHMB 0.3W	EVMEASA00B14	
R520	72000839	RESISTOR, M2.49KOHM, F, 1/4W	ER0S2CKF2491	
R524	72000568	RESISTOR, F 10 OHM, J, 1/4W	ERQ14AJ100P	
R530	72000568	RESISTOR, F 10 OHM, J, 1/4W	ERQ14AJ100P	
R531	72000846	RESISTOR, C 1KOHM, J, 1/4W	ERDS2FJ102	
R532	72000870	RESISTOR, M 100 OHM, J, 3W	ERG3FJS101D	
R533	72000863	RESISTOR, C 56 OHM, J, 1/4W	ERDS2TJ560	
R534	72000858	RESISTOR, C 5.6KOHM, J, 1/4W	ERDS2FJ562	
R535	72000847	RESISTOR, C 10KOHM, J, 1/4W	ERDS2FJ103	
R536	72000856	RESISTOR, C 47KOHM, J, 1/4W	ERDS2FJ473	
R537	72000847	RESISTOR, C 10KOHM, J, 1/4W	ERDS2FJ103	
R538	72000856	RESISTOR, C 47KOHM, J, 1/4W	ERDS2FJ473	
R600	72000969	RESISTOR, M 2.2KOHM, J, 1/10W	ERJ6GEYG222	
R601	72000969	RESISTOR, M 2.2KOHM, J, 1/10W	ERJ6GEYG222	
R602	72000973	RESISTOR, M 3.3KOHM, J, 1/10W	ERJ6GEYG332	
R603	72000646	RESISTOR, M 180 OHM, 1/10W	ERJ6ENF1800	
R604	72000946	RESISTOR, M 39KOHM, 1/10W	ERJ6ENF3902	
R605	72000496	RESISTOR, M 15KOHM, 1/10W	ERJ6ENF1502	
R606	72000959	RESISTOR, M 10KOHM, J, 1/10W	ERJ6GEYG103	
R607	72000969	RESISTOR, M 2.2KOHM, J, 1/10W	ERJ6GEYG222	
R608	72000977	RESISTOR, M 68KOHM, J, 1/10W	ERJ6GEYG683	
R609	72000966	RESISTOR, M 150KOHM, J, 1/10W	ERJ6GEYG154	
R610	72000598	RESISTOR, M 27KOHM, J, 1/10W	ERJ6GEYJ273	
R611	72000495	RESISTOR, M 100 OHM, J, 1/10W	ERJ6GEYJ101	
R613	72000495	RESISTOR, M 100 OHM, J, 1/10W	ERJ6GEYJ101	
R614	72000959	RESISTOR, M 10KOHM, J, 1/10W	ERJ6GEYG103	
R615	72000975	RESISTOR, M 5.6KOHM, J, 1/10W	ERJ6GEYG562	
R616	72000969	RESISTOR, M 2.2KOHM, J, 1/10W	ERJ6GEYG222	

Loc. No.	Part No	Description	Reference No.	Remarks
R617	72000846	RESISTOR, C 1KOHM, J, 1/4W	ERDS2FJ102	
R619	72000969	RESISTOR, M 2.2KOHM, J, 1/10W	ERJ6GEYG222	
R621	72000956	RESISTOR, M 47KOHM, J, 1/10W	ERJ6GEYF473	
R622	72000950	RESISTOR, M 6.8KOHM, 1/10W	ERJ6ENF6811	
R624	72000478	RESISTOR, M 22KOHM, J, 1/10W	ERJ6GEYJ223	
R625	72000936	RESISTOR, CONTROL 50KOHMB	EVMEGSA00B54	
R626	72000478	RESISTOR, M 22KOHM, J, 1/10W	ERJ6GEYJ223	
R627	72000956	RESISTOR, M 47KOHM, J, 1/10W	ERJ6GEYF473	
R628	72000969	RESISTOR, M 2.2KOHM, J, 1/10W	ERJ6GEYG222	
R629	72000492	RESISTOR, M 56KOHM, J, 1/10W	ERJ6GEYJ563	
R631	72000577	RESISTOR, M 2.49KOHM, 1/10W	ERJ6ENF2491	
R632	72000956	RESISTOR, M 47KOHM, J, 1/10W	ERJ6GEYF473	
R633	72000978	RESISTOR, M 82KOHM, J, 1/10W	ERJ6GEYG823	
R634	72000978	RESISTOR, M 82KOHM, J, 1/10W	ERJ6GEYG823	
R635	72000492	RESISTOR, M 56KOHM, J, 1/10W	ERJ6GEYJ563	
R636	72000849	RESISTOR, C 220 OHM, J, 1/4W	ERDS2FJ221	
R637	72000969	RESISTOR, M 2.2KOHM, J, 1/10W	ERJ6GEYG222	
R638	72000849	RESISTOR, C 220 OHM, J, 1/4W	ERDS2FJ221	
R640	72000901	RESISTOR, M 200 OHM, 1/10W	ERJ6ENF2000	
R650	72000958	RESISTOR, M 1KOHM, J, 1/10W	ERJ6GEYG102	
R651	72000492	RESISTOR, M 56KOHM, J, 1/10W	ERJ6GEYJ563	
R652	72000954	RESISTOR, M 33KOHM, J, 1/10W	ERJ6GEYF333	
R653	72000954	RESISTOR, M 33KOHM, J, 1/10W	ERJ6GEYF333	
R654	72000556	RESISTOR, M 560 OHM, J, 1W	ERG1FJS561D	
R655	72000854	RESISTOR, C 470 OHM, J, 1/4W	ERDS2FJ471	
R656	72000981	RESISTOR, M 30KOHM, J, 1/10W	ERJ6GEYJ303	
R657	72000955	RESISTOR, M 4.7KOHM, J, 1/10W	ERJ6GEYF472	
R658	72000495	RESISTOR, M 100 OHM, J, 1/10W	ERJ6GEYJ101	
R659	72000955	RESISTOR, M 4.7KOHM, J, 1/10W	ERJ6GEYF472	
R661	72000860	RESISTOR, C 8.2KOHM, J, 1/4W	ERDS2FJ822	
R662	72000964	RESISTOR, M 1.5KOHM, J, 1/10W	ERJ6GEYG152	
R663	72000582	RESISTOR, M 4.7 OHM, J, 1/2W	ERX12SJ4R7	
R664	72000583	RESISTOR, M 8.2 OHM, J, 1W	ERX1FJS8R2D	
R665	72000864	RESISTOR, M 10 OHM, J, 1W	ERG1FJS100D	
R666	72000959	RESISTOR, M 10KOHM, J, 1/10W	ERJ6GEYG103	
R667	72000958	RESISTOR, M 1KOHM, J, 1/10W	ERJ6GEYG102	
R668	72000981	RESISTOR, M 30KOHM, J, 1/10W	ERJ6GEYJ303	
R669	72000981	RESISTOR, M 30KOHM, J, 1/10W	ERJ6GEYJ303	
R700	72000974	RESISTOR, M 390 OHM, J, 1/10W	ERJ6GEYG391	
R701	72000851	RESISTOR, C 33 OHM, J, 1/4W	ERDS2FJ330	

Loc. No.	Part No	Description	Reference No.	Remarks
R703	72000970	RESISTOR, M 270 OHM, J, 1/10W	ERJ6GEYG271	
R704	72000478	RESISTOR, M 22KOHM, J, 1/10W	ERJ6GEYJ223	
R705	72000949	RESISTOR, M 6.8KOHM, 1/10W	ERJ6ENF6801	
R706	72000589	RESISTOR, M 4.7KOHM, 1/10W	ERJ6ENF4701	
R707	72000980	RESISTOR, M 1.2KOHM, J, 1/10W	ERJ6GEYJ125	
R708	72000587	RESISTOR, M 240 OHM, J, 1/10W	ERJ6GEYJ241	
R709	72000495	RESISTOR, M 100 OHM, J, 1/10W	ERJ6GEYJ101	
R710	72000957	RESISTOR, M 560 OHM, J, 1/10W	ERJ6GEYF561	
R711	72000967	RESISTOR, M 1.8KOHM, J, 1/10W	ERJ6GEYG182	
R712	72000478	RESISTOR, M 22KOHM, J, 1/10W	ERJ6GEYJ223	
R713	72000588	RESISTOR, M 1.5KOHM, 1/10W	ERJ6ENF1501	
R714	72000588	RESISTOR, M 1.5KOHM, 1/10W	ERJ6ENF1501	
R715	72000956	RESISTOR, M 47KOHM, J, 1/10W	ERJ6GEYF473	
R716	72000478	RESISTOR, M 22KOHM, J, 1/10W	ERJ6GEYJ223	
R717	72000948	RESISTOR, M 6.2KOHM, 1/10W	ERJ6ENF6201	
R718	72000959	RESISTOR, M 10KOHM, J, 1/10W	ERJ6GEYG103	
R719	72000959	RESISTOR, M 10KOHM, J, 1/10W	ERJ6GEYG103	
R720	72000855	RESISTOR, C 4.7KOHM, J, 1/4W	ERDS2FJ472	
R721	72000478	RESISTOR, M 22KOHM, J, 1/10W	ERJ6GEYJ223	
R722	72000473	RESISTOR, M 0 OHM, J, 1/10W	ERJ6GEY0R00	
R750	72000958	RESISTOR, M 1KOHM, J, 1/10W	ERJ6GEYG102	
R751	72000959	RESISTOR, M 10KOHM, J, 1/10W	ERJ6GEYG103	
R752	72000960	RESISTOR, M 100KOHM, J, 1/10W	ERJ6GEYG104	
R753	72000959	RESISTOR, M 10KOHM, J, 1/10W	ERJ6GEYG103	
R754	72000478	RESISTOR, M 22KOHM, J, 1/10W	ERJ6GEYJ223	
R755	72000959	RESISTOR, M 10KOHM, J, 1/10W	ERJ6GEYG103	
R756	72000592	RESISTOR, M 19.1KOHM, 1/10W	ERJ6ENF1913	
R758	72000966	RESISTOR, M 150KOHM, J, 1/10W	ERJ6GEYG154	
R759	72000960	RESISTOR, M 100KOHM, J, 1/10W	ERJ6GEYG104	
R760	72000959	RESISTOR, M 10KOHM, J, 1/10W	ERJ6GEYG103	
R761	72000593	RESISTOR, M 10KOHM, 1/10W	ERJ6ENF1002	
R762	72000956	RESISTOR, M 47KOHM, J, 1/10W	ERJ6GEYF473	
R763	72000593	RESISTOR, M 10KOHM, 1/10W	ERJ6ENF1002	
R764	72000959	RESISTOR, M 10KOHM, J, 1/10W	ERJ6GEYG103	
R765	72000955	RESISTOR, M 4.7KOHM, J, 1/10W	ERJ6GEYF472	
R766	72000956	RESISTOR, M 47KOHM, J, 1/10W	ERJ6GEYF473	
R767	72000594	RESISTOR, M 200KOHM, 1/10W	ERJ6ENF2003	
R768	72000595	RESISTOR, M 61.9KOHM, 1/10W	ERJ6ENF6192	
R769	72000596	RESISTOR, M 100KOHM, 1/10W	ERJ6ENF1003	
R770	72000596	RESISTOR, M 100KOHM, 1/10W	ERJ6ENF1003	

Loc. No.	Part No	Description	Reference No.	Remarks
R775	72000850	RESISTOR, C 22KOHM, J, 1/4W	ERDS2FJ223	
R776	72000850	RESISTOR, C 22KOHM, J, 1/4W	ERDS2FJ223	
R777	72000959	RESISTOR, M 10KOHM, J, 1/10W	ERJ66EYG103	
R778	72000965	RESISTOR, M 15KOHM, J, 1/10W	ERJ66EYG153	
R779	72000959	RESISTOR, M 10KOHM, J, 1/10W	ERJ66EYG103	
R780	72000959	RESISTOR, M 10KOHM, J, 1/10W	ERJ66EYG103	
R781	72000959	RESISTOR, M 10KOHM, J, 1/10W	ERJ66EYG103	
R782	72000959	RESISTOR, M 10KOHM, J, 1/10W	ERJ66EYG103	
R783	72000958	RESISTOR, M 1KOHM, J, 1/10W	ERJ66EYG102	
R784	72000478	RESISTOR, M 22KOHM, J, 1/10W	ERJ66EYJ223	
R785	72000959	RESISTOR, M 10KOHM, J, 1/10W	ERJ66EYG103	
R786	72000959	RESISTOR, M 10KOHM, J, 1/10W	ERJ66EYG103	
R787	72000956	RESISTOR, M 47KOHM, J, 1/10W	ERJ66EYF473	
R788	72000955	RESISTOR, M 4.7KOHM, J, 1/10W	ERJ66EYF472	
R789	72000960	RESISTOR, M 100KOHM, J, 1/10W	ERJ66EYG104	
R8002	72000959	RESISTOR, M 10KOHM, J, 1/10W	ERJ66EYG103	
R8003	72000965	RESISTOR, M 15KOHM, J, 1/10W	ERJ66EYG153	
R8004	72000970	RESISTOR, M 270 OHM, J, 1/10W	ERJ66EYG271	
R8006	72000972	RESISTOR, M 330 OHM, J, 1/10W	ERJ66EYG331	
R8007	72000972	RESISTOR, M 330 OHM, J, 1/10W	ERJ66EYG331	
R8008	72000976	RESISTOR, M 680 OHM, J, 1/10W	ERJ66EYG681	
R8009	72000973	RESISTOR, M 3.3KOHM, J, 1/10W	ERJ66EYG332	
R8010	72000969	RESISTOR, M 2.2KOHM, J, 1/10W	ERJ66EYG222	
R8012	72000495	RESISTOR, M 100 OHM, J, 1/10W	ERJ66EYJ101	
R8013	72000960	RESISTOR, M 100KOHM, J, 1/10W	ERJ66EYG104	
R8015	72000495	RESISTOR, M 100 OHM, J, 1/10W	ERJ66EYJ101	
R8017	72000495	RESISTOR, M 100 OHM, J, 1/10W	ERJ66EYJ101	
R8018	72000495	RESISTOR, M 100 OHM, J, 1/10W	ERJ66EYJ101	
R8019	72000495	RESISTOR, M 100 OHM, J, 1/10W	ERJ66EYJ101	
R8021	72000972	RESISTOR, M 330 OHM, J, 1/10W	ERJ66EYG331	
R8022	72000972	RESISTOR, M 330 OHM, J, 1/10W	ERJ66EYG331	
R8023	72000955	RESISTOR, M 4.7KOHM, J, 1/10W	ERJ66EYF472	
R8024	72000955	RESISTOR, M 4.7KOHM, J, 1/10W	ERJ66EYF472	
R8025	72000968	RESISTOR, M 18KOHM, J, 1/10W	ERJ66EYG183	
R8026	72000495	RESISTOR, M 100 OHM, J, 1/10W	ERJ66EYJ101	
R8027	72000958	RESISTOR, M 1KOHM, J, 1/10W	ERJ66EYG102	
R8028	72000969	RESISTOR, M 2.2KOHM, J, 1/10W	ERJ66EYG222	
R8029	72000969	RESISTOR, M 2.2KOHM, J, 1/10W	ERJ66EYG222	
R8030	72000969	RESISTOR, M 2.2KOHM, J, 1/10W	ERJ66EYG222	
R8031	72000492	RESISTOR, M 56KOHM, J, 1/10W	ERJ66EYJ563	

Loc. No.	Part No	Description	Reference No.	Remarks
R8032	72000478	RESISTOR, M 22KOHM, J, 1/10W	ERJ66EYJ223	
R8033	72000971	RESISTOR, M 33 OHM, J, 1/10W	ERJ66EYG330	
R8035	72000495	RESISTOR, M 100 OHM, J, 1/10W	ERJ66EYJ101	
R8036	72000625	RESISTOR, RESISTOR ARRAY	EXB38V330J	
R900	72000631	RESISTOR, S 1MOHM, K, 1/2W	ERC12ZGK105	
R901	72000631	RESISTOR, S 1MOHM, K, 1/2W	ERC12ZGK105	
R951	72000960	RESISTOR, M 100KOHM, J, 1/10W	ERJ66EYG104	
R952	72000961	RESISTOR, M 1MOHM, J, 1/10W	ERJ66EYG105	
R953	72000959	RESISTOR, M 10KOHM, J, 1/10W	ERJ66EYG103	
R954	72000955	RESISTOR, M 4.7KOHM, J, 1/10W	ERJ66EYF472	
R955	72000956	RESISTOR, M 47KOHM, J, 1/10W	ERJ66EYF473	
R956	72000497	RESISTOR, M 22 OHM, J, 1/10W	ERJ66EYJ220	
R957	72000984	RESISTOR, M0.15 OHM, J, 1/2W	ERX12ZJR15	
R958	72000984	RESISTOR, M0.15 OHM, J, 1/2W	ERX12ZJR15	
R959	72000984	RESISTOR, M0.15 OHM, J, 1/2W	ERX12ZJR15	
R960	72000951	RESISTOR, M 931 OHM, 1/10W	ERJ6ENF9310	
R961	72000903	RESISTOR, M 2.2KOHM, 1/10W	ERJ6ENF2201	
RL401	72001010	RELAY	TSEH0013	
RL402	72001009	RELAY	TSE10801	
RM001	72000649	REMOCO RECEIVER	PNA4601M05TV	
S061	72000650	POWER SWITCH	TSE4GD0001	
S1554	72000651	SWITCH	EVQPB05R	
S1555	72000651	SWITCH	EVQPB05R	
S1556	72000651	SWITCH	EVQPB05R	
S701	72000988	SWITCH	EVQRDSL12	
T400	72000997	TRANSFORMER, SWITCHING TRANS	G4D4A0000012	
T401	72000987	TRANSFORMER, SWITCHING TRANS	ETS42BN163AD	
T402	72000655	TRANSFORMER, SWITCHING TRANS	ETS25AD186AG	
UC1	72701228	PC BOARD ASSY, C1, TNPA2253AB	TNPA2253AB	
UC2	72701229	PC BOARD ASSY, C2, TNPA2254AB	TNPA2254AB	
UC3	72701230	PC BOARD ASSY, C3, TNPA2255AB	TNPA2255AB	
UC4	72701231	PC BOARD ASSY, C4, TNPA2256AB	TNPA2256AB	
UD	72701240	PC BOARD ASSY, D, TZTNP02KNSR	TZTNP02KNSR	42WP16A, B, E, H, R
UD	72701241	PC BOARD ASSY, D, TZTNP01KNSC	TZTNP01KNSC	42WP16C
UF	72701242	PC BOARD ASSY, F, TXN/F1JASE	TXN/F1JASE	
UH3	72701227	PC BOARD ASSY, H3, TNPA2249	TNPA2249	
UHX	72701244	PC BOARD ASSY, HX, TZTNP01KNSR	TZTNP01KNSR	
UHZ	72701226	PC BOARD ASSY, HZ, TXNHZ10JJS	TXNHZ10JJS	
UJ	72701225	PC BOARD ASSY, J, TXN/J10JAS	TXN/J10JAS	
UP1	72701243	PC BOARD ASSY, P1, TXNP11JASE-N	TXNP11JASE-N	
UP3	72701220	PC BOARD ASSY, P3, TNPA1777	TNPA1777	
UP5	72701221	PC BOARD ASSY, P5, TNPA1778	TNPA1778	
UP6	72701222	PC BOARD ASSY, P6, TNPA1779	TNPA1779	
UP7	72701223	PC BOARD ASSY, P7, TNPA1780	TNPA1780	

Loc. No.	Part No	Description	Reference No.	Remarks
UP8	72701224	PC BOARD ASSY, P8, TNPA1781	TNPA1781	
US1	72701239	PC BOARD ASSY, S1, TNPA2283	TNPA2283	
USC	72701234	PC BOARD ASSY, SC, TNPA2261	TNPA2261	
USD	72701233	PC BOARD ASSY, SD, TNPA2260	TNPA2260	
USS	72701235	PC BOARD ASSY, SS, TNPA2262	TNPA2262	
USS2	72701236	PC BOARD ASSY, SS2, TNPA2263	TNPA2263	
USS3	72701237	PC BOARD ASSY, SS3, TNPA2264	TNPA2264	
USU	72701232	PC BOARD ASSY, SU, TNPA2259	TNPA2259	
UV1	72701238	PC BOARD ASSY, V1, TNPA2282	TNPA2282	
X1001	72001011	CRYSTAL	TSSA120	
X1002	72000998	CRYSTAL	H0J921400003	
X3801	72001013	CRYSTAL	TSSA148	

12 Block and Schematic Diagrams

12.1. Schematic Diagram Notes

Important Safety Notice

Components identified by Δ mark have special characteristics important for safety.
When replacing any of these components, use only manufacture's specified parts.

Notes:

1. **Resistor**
All resistors are cabon 1/4W resistor, unless marked as follows:
Unit of resistance is OHM [W] (K=1,000, M=1,000,000).

$\bigcirc$: Nonflammable	$\boxtimes$: Metal Oxide
$\triangle$: Solid	$\odot$: Metal Film
$\boxplus$: Wire Wound	$\otimes$: Fuse:
2. **Capacitor**
All capacitors are ceramic 50V capacitor, unless marked as follows:
Unit of capacitance is mF, unless otherwise noted.

$\otimes$: Temperature Compensation	$\begin{smallmatrix} + \\ \text{---} \text{H} \text{---} \end{smallmatrix}$: Electrolytic
$\textcircled{M}$: Polyester	$\begin{smallmatrix} NP \\ \text{---} \text{H} \text{---} \end{smallmatrix}$: Bipolar
$\textcircled{m}$: Metalized Polyester	$\textcircled{1}$: Dipped Tantalum
$\boxtimes$: Polypropylene	$\textcircled{2}$: Z-Type
3. Coil
Unit of inductance is mF, unless otherwise noted.
4. Test Point
 $\bigcirc$: Test Point position
5. Earth Symbol
 $\text{---} \text{H}$: Chassis Earth (Cold) $\downarrow$: Line Earth (Hot)
6. Voltage Measurement
Voltage is measured by a DC voltmeter.
Conditions of the measurement are the following:

Power Source	50/60Hz
Receiving Signal	Colour Bar signal (RF)
All customer's controls	Maximum positions
7. Number in red circle indicates waveform nember.
(See waveform pattern table.)
8. When arrow mark ($\nearrow$) is found, connection is easily found from the direction of arrow
9. Indicates the major signal flow. : Video $\Rightarrow$ Audio $\Leftrightarrow$
10. This schematic diagram is the latest at the time of printing and subject to change without notice.

Remarks:

1. The Power Circuit contains a circuit area which uses a separate power supply to isolate the earth connection.
The circuit is defined by HOT and COLD indications in the schematic diagram. Take the follwing precautions.
All circuits, except the Power Circuit, are cold.
Precautions

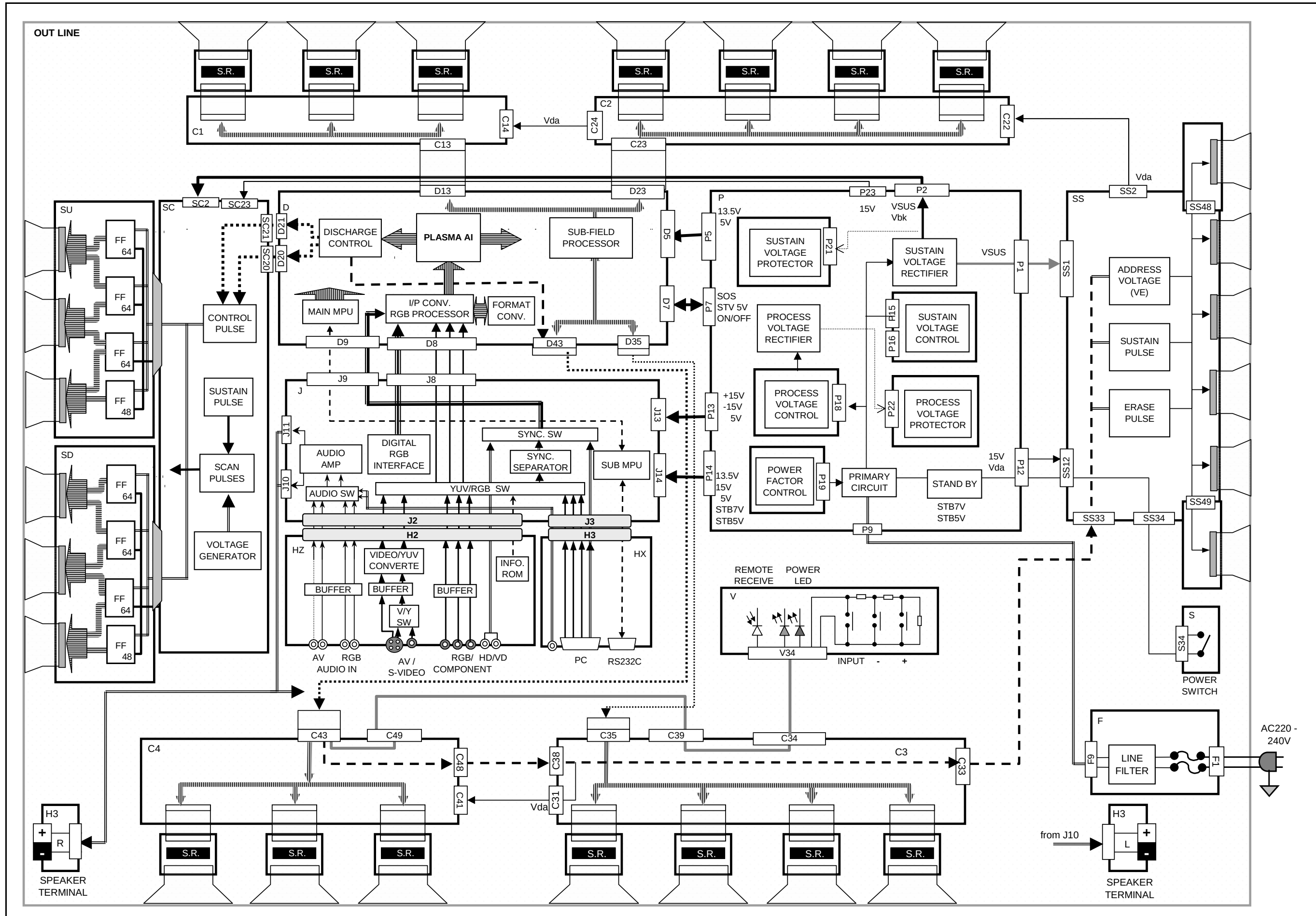
a. Do not touch the hot part or the hot and cold parts at the same time or you may be shocked.

b. Do not short- circuit the hot and cold circuits or a fuse may blow and parts may break.

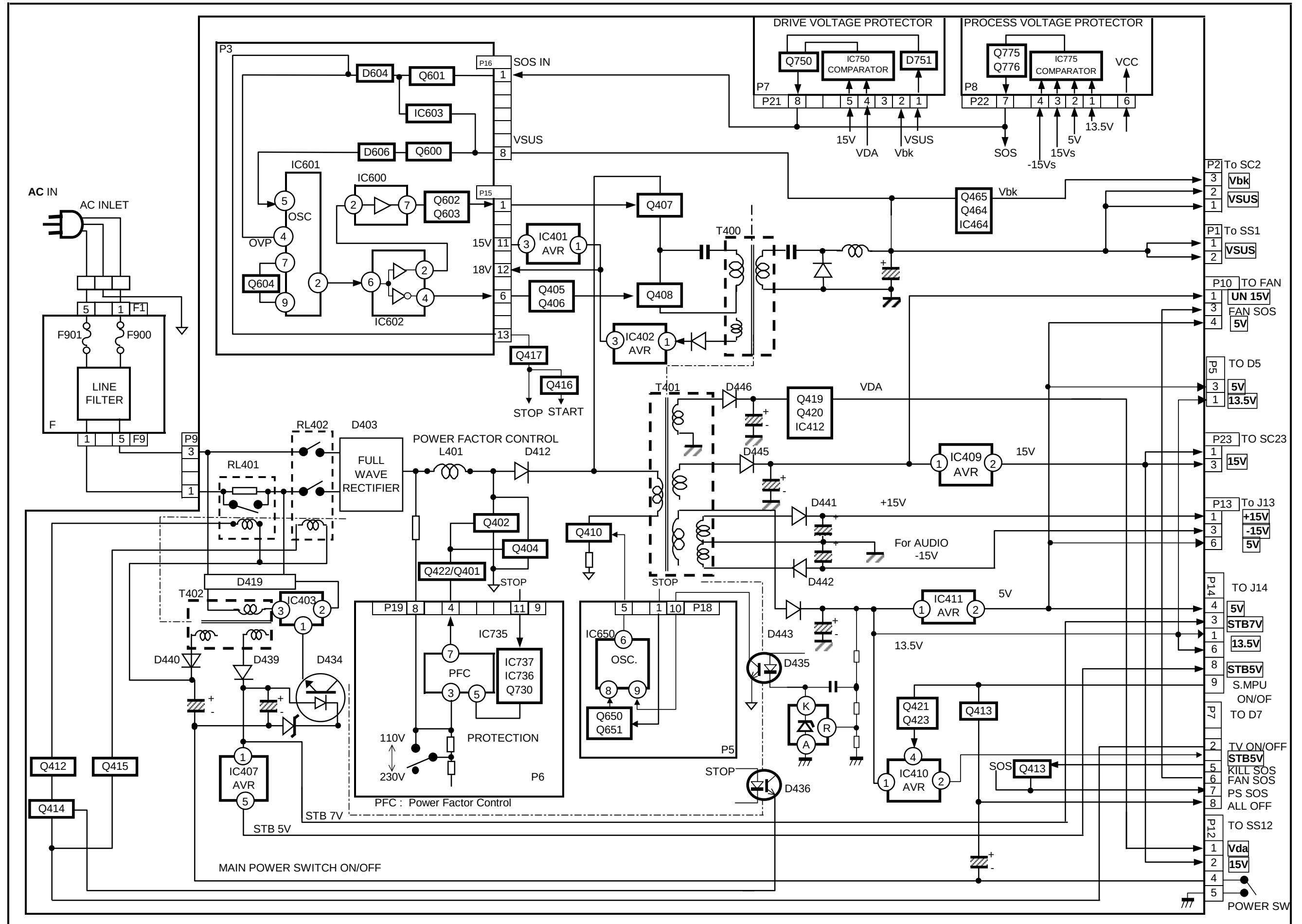
c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously or a fuse may blow.
Connect the earth of instruments to the earth connection of the circuit being measured.

d. Make sure to disconnect the power plug before removing the chassis.
2. Following diodes are interchangeable.
MA150- MA162 (Replacement part)

12.2. Main Block Diagram



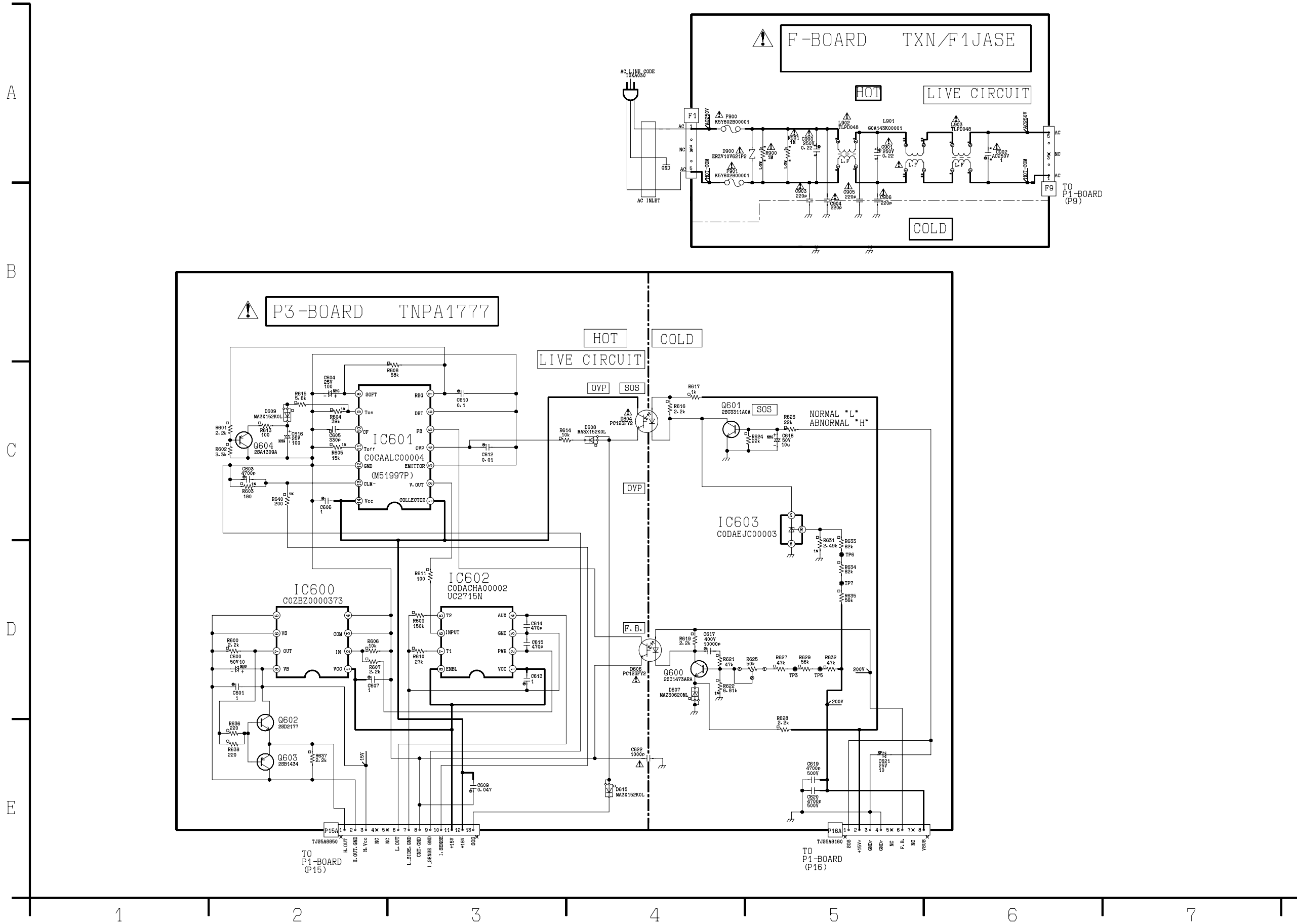
12.3. Power Block Diagram



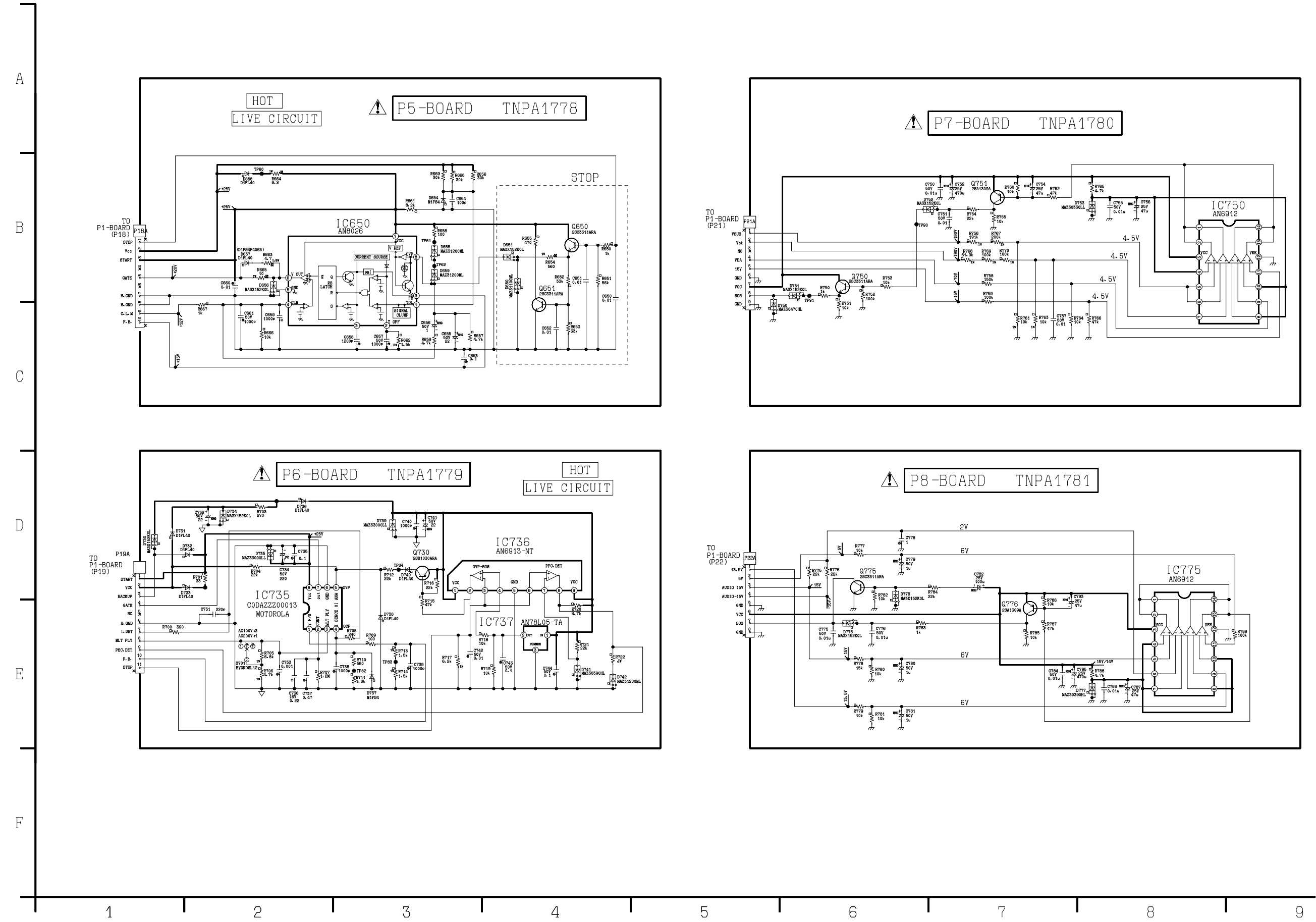
A



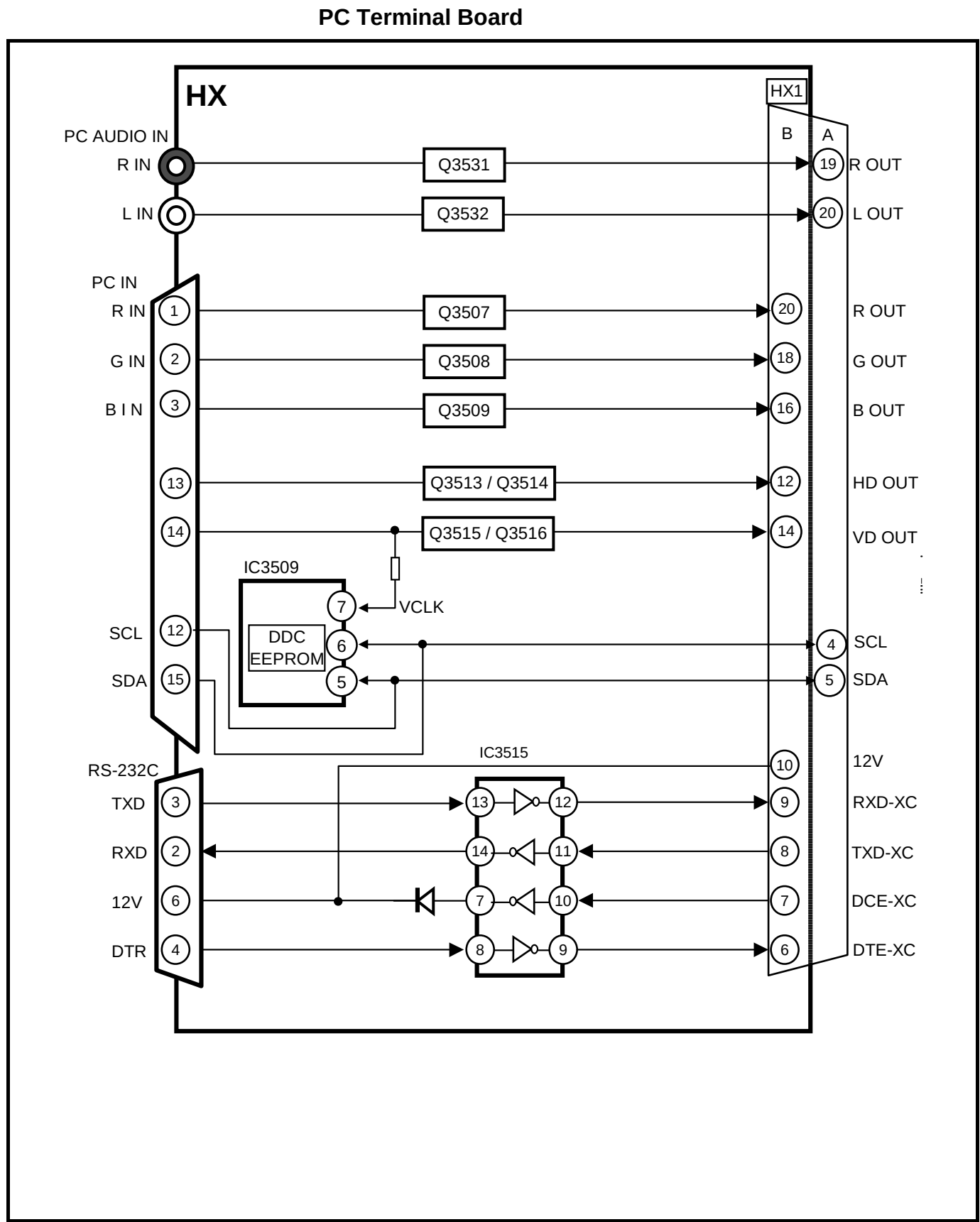
12.5. F and P3-Board Schematic Diagram



12.6. P5, P6, P7 and P8-Board Schematic diagram



12.7. HX Block Diagram



12.8. HX-Board Schematic Diagrams

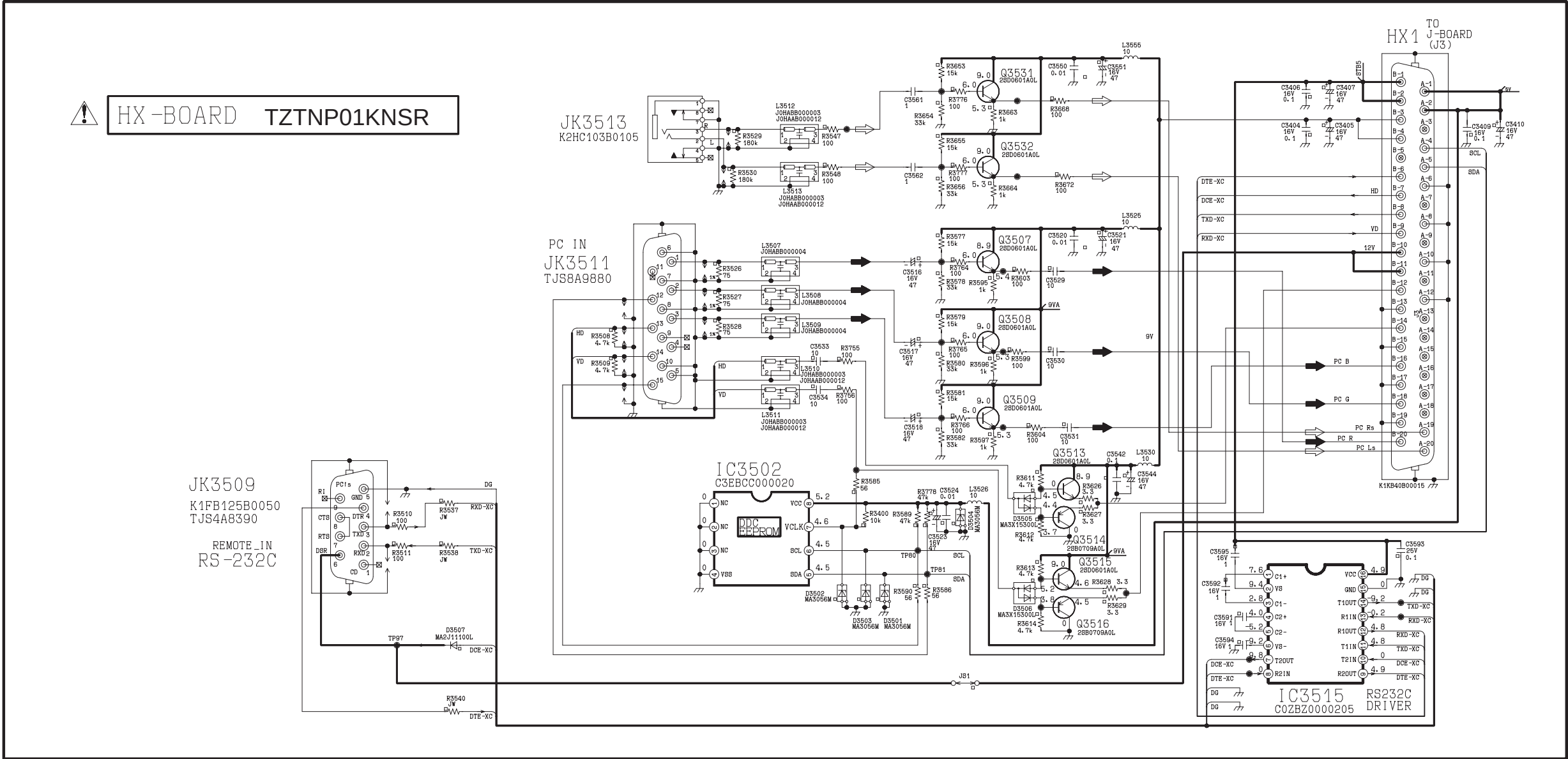
A

B

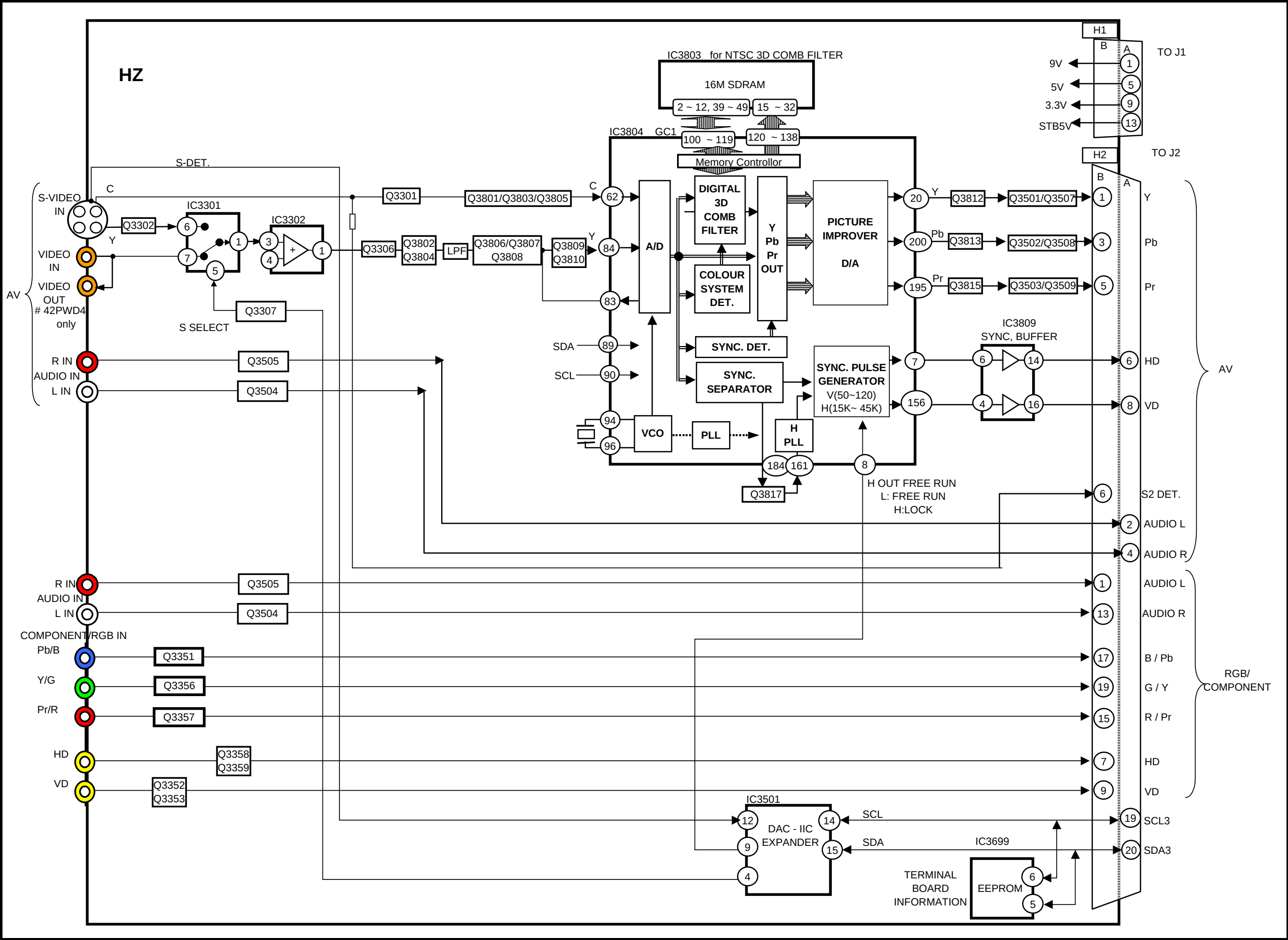
C

D

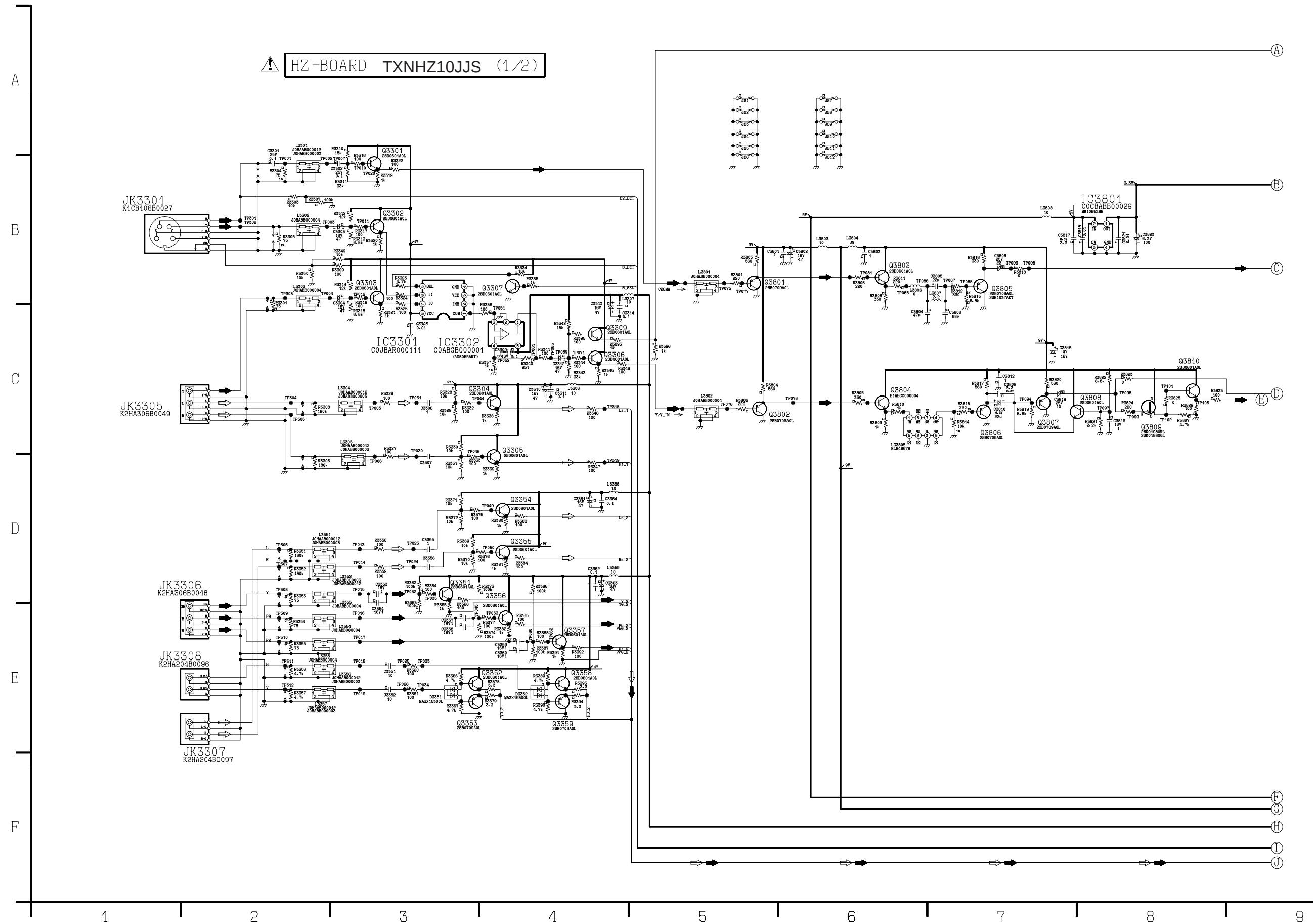
E



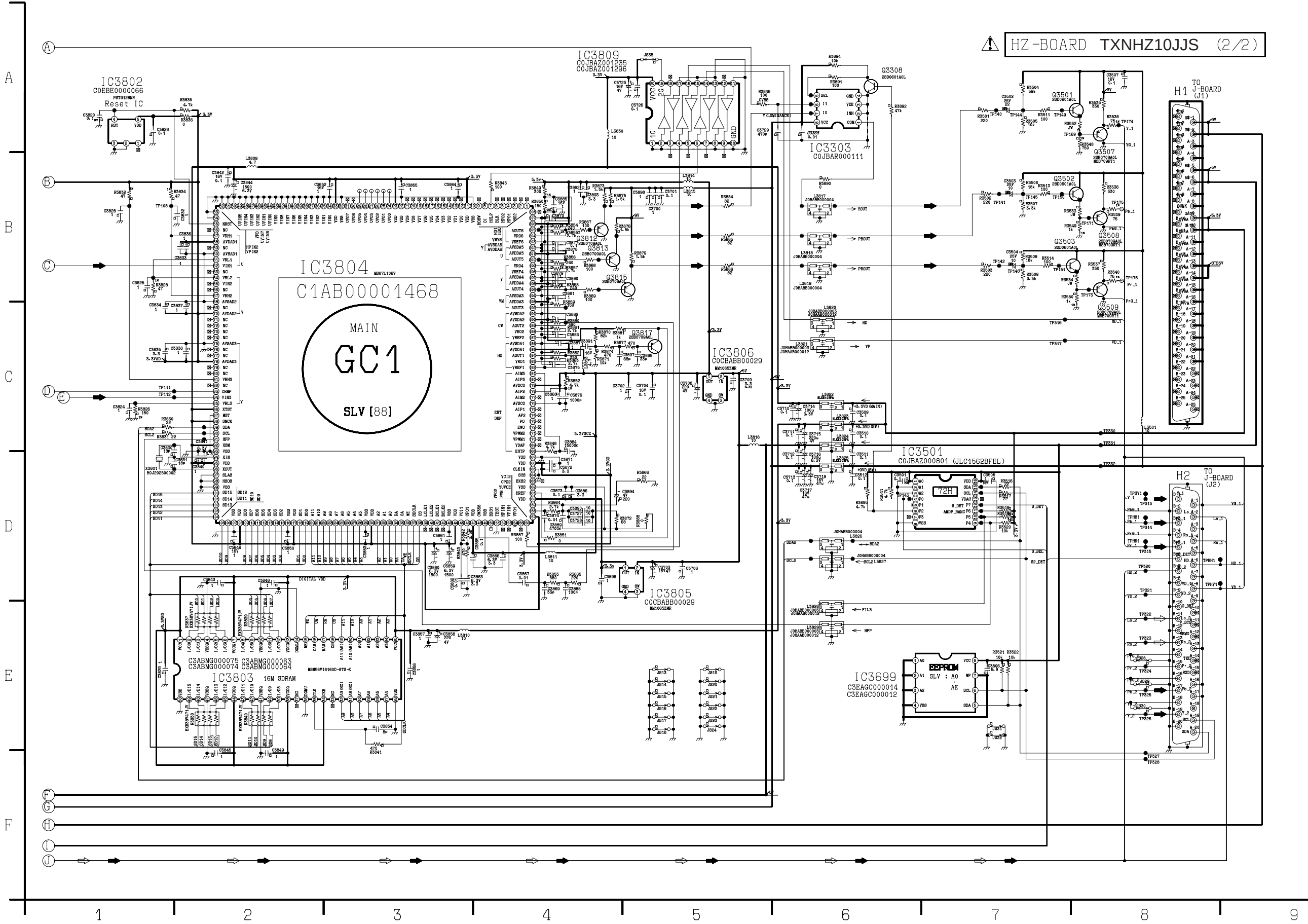
12.9. HZ Block Diagrams



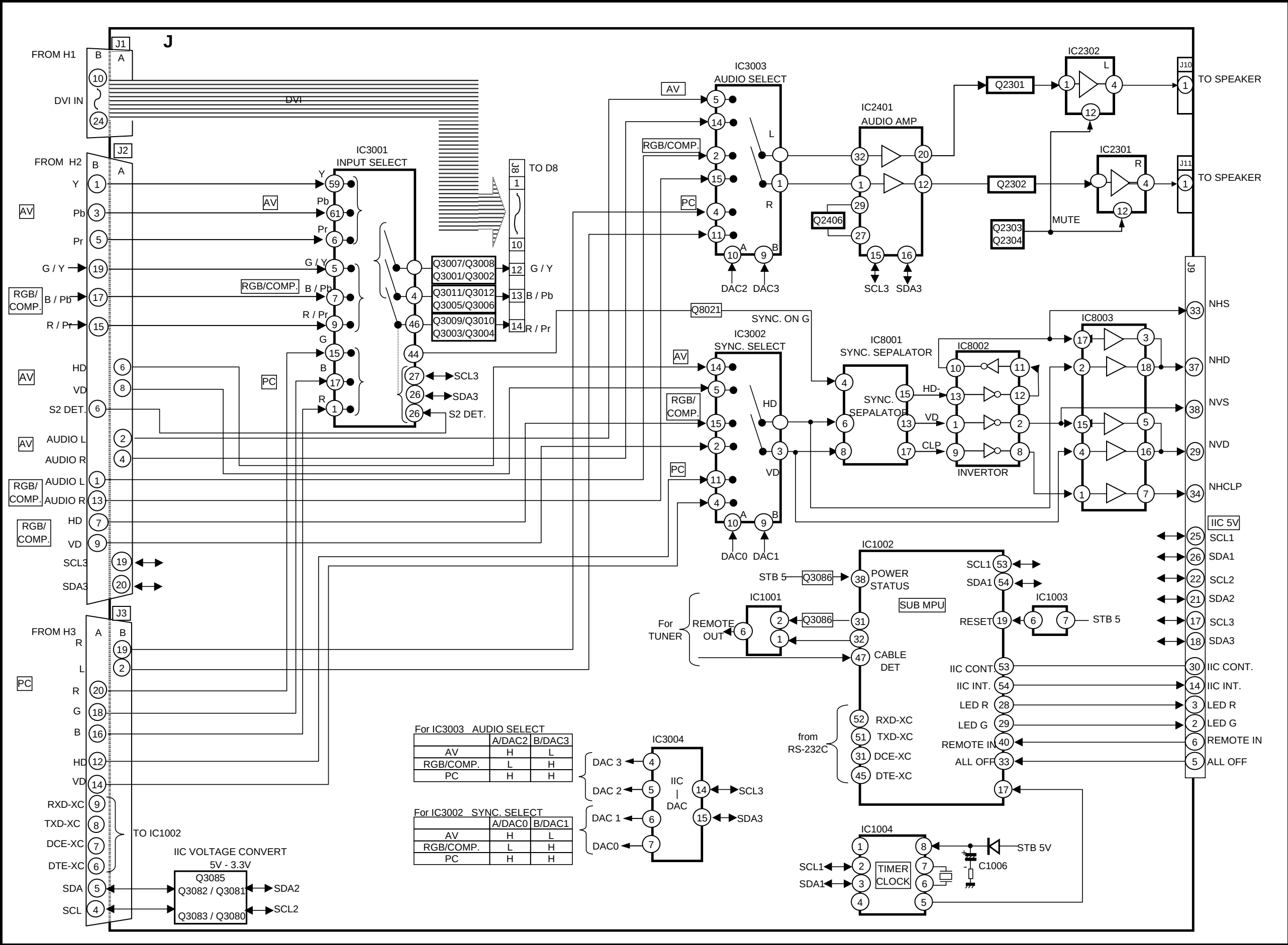
12.10. HZ-Board (1/2) (Option RTB421) Schematic Diagram



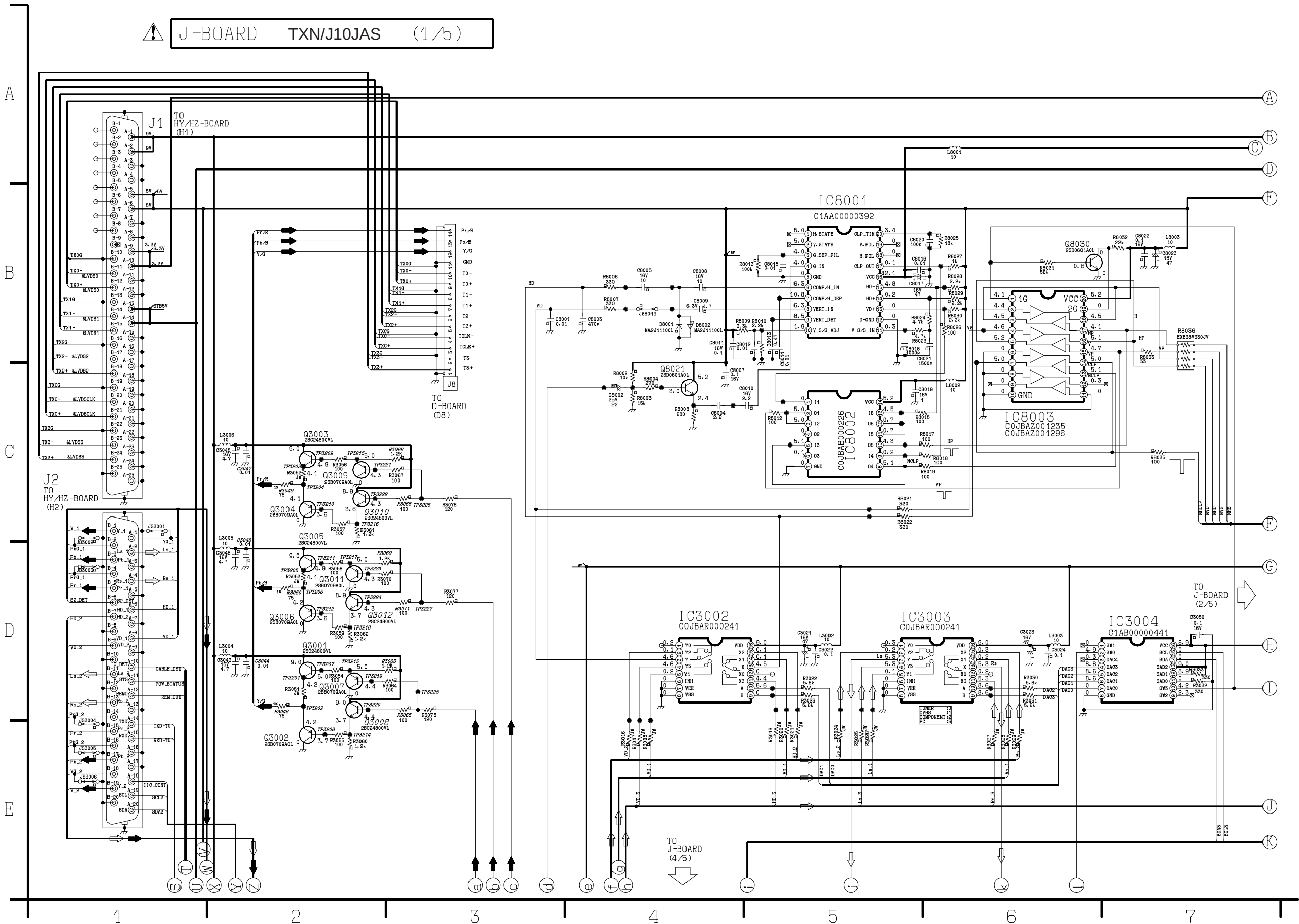
12.11. HZ-Board (2/2) (Option RTB421) Schematic Diagram



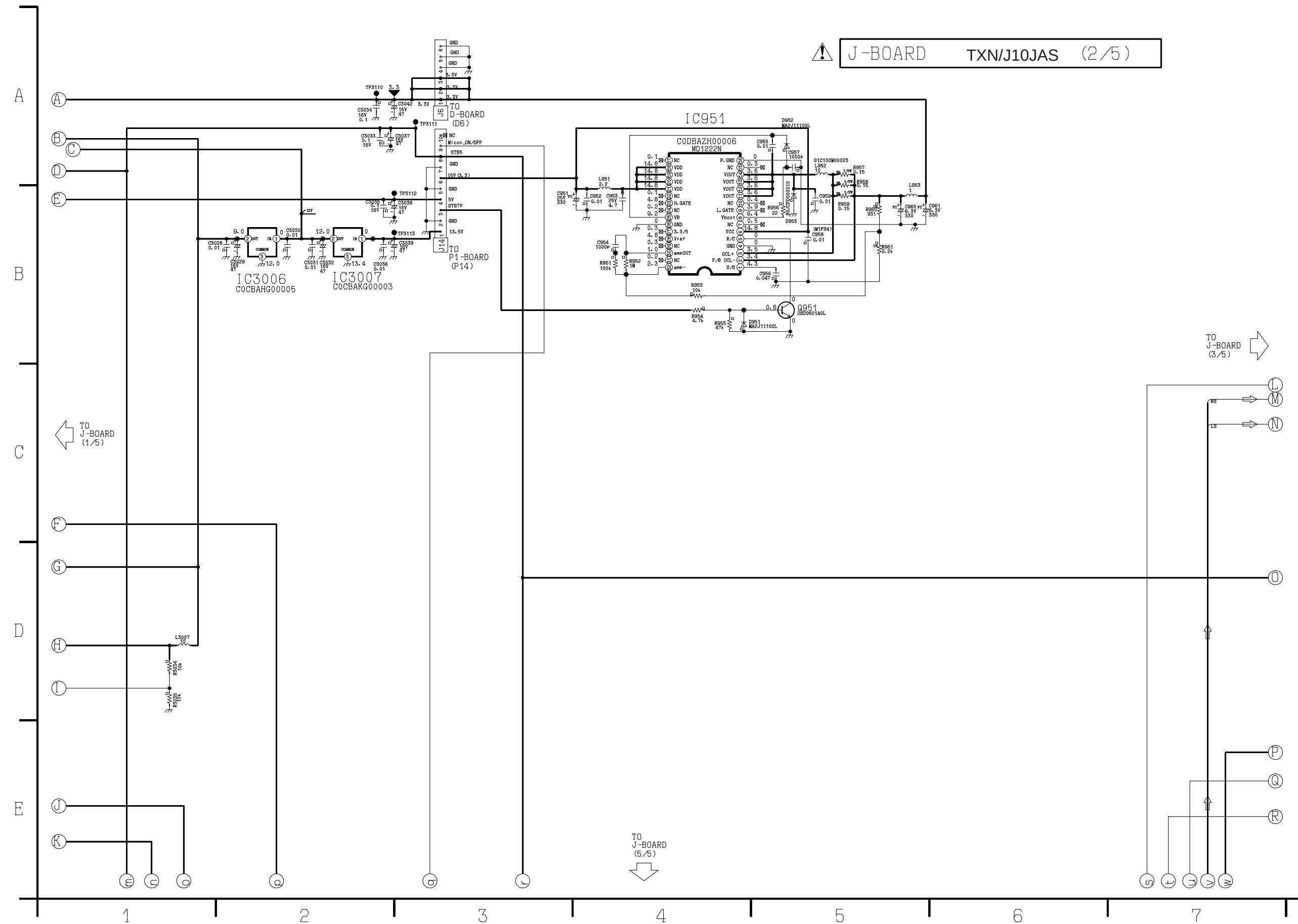
12.12. J-Board Block Diagrams



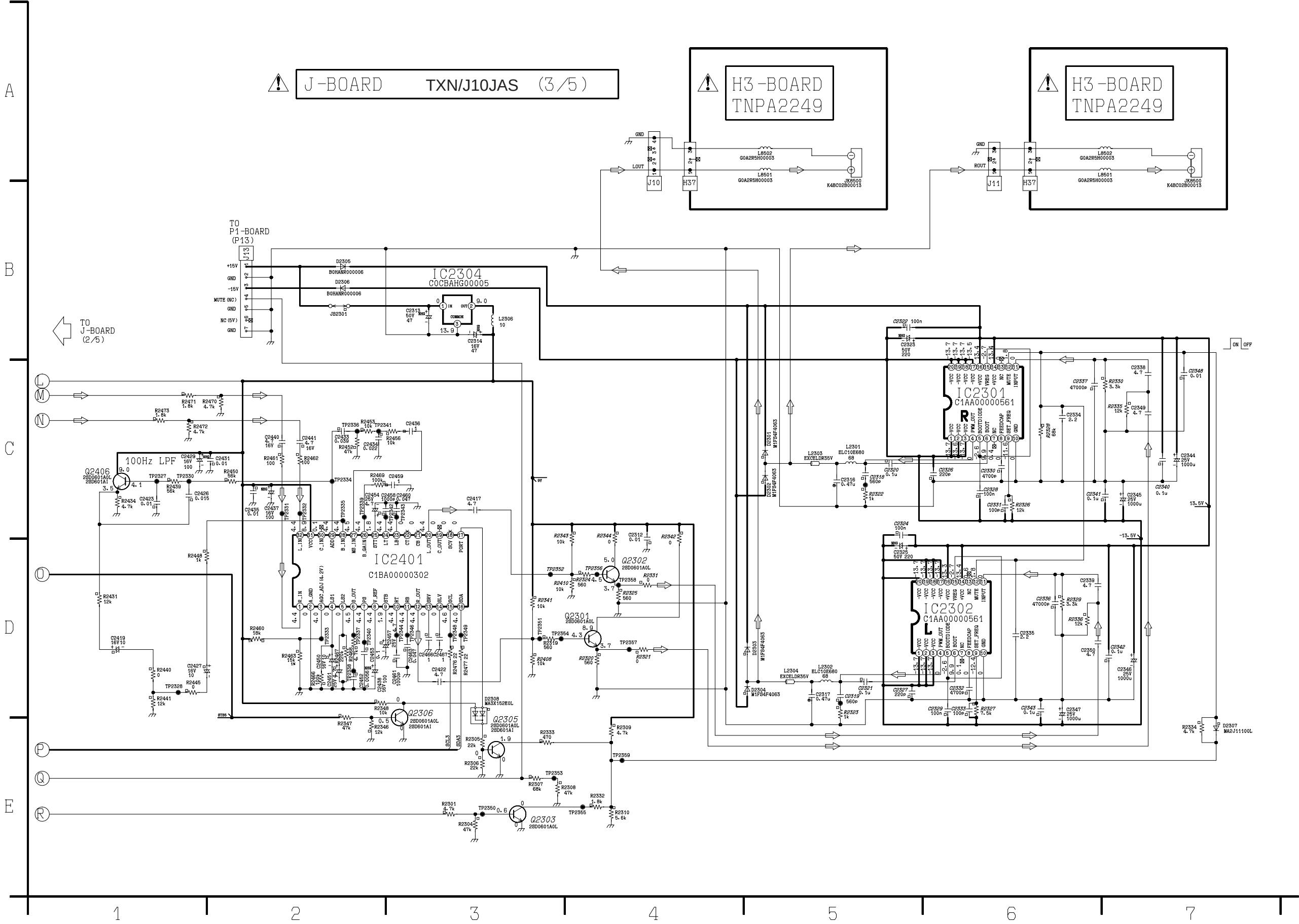
12.13. J-Board (1/5) Schematic Diagrams



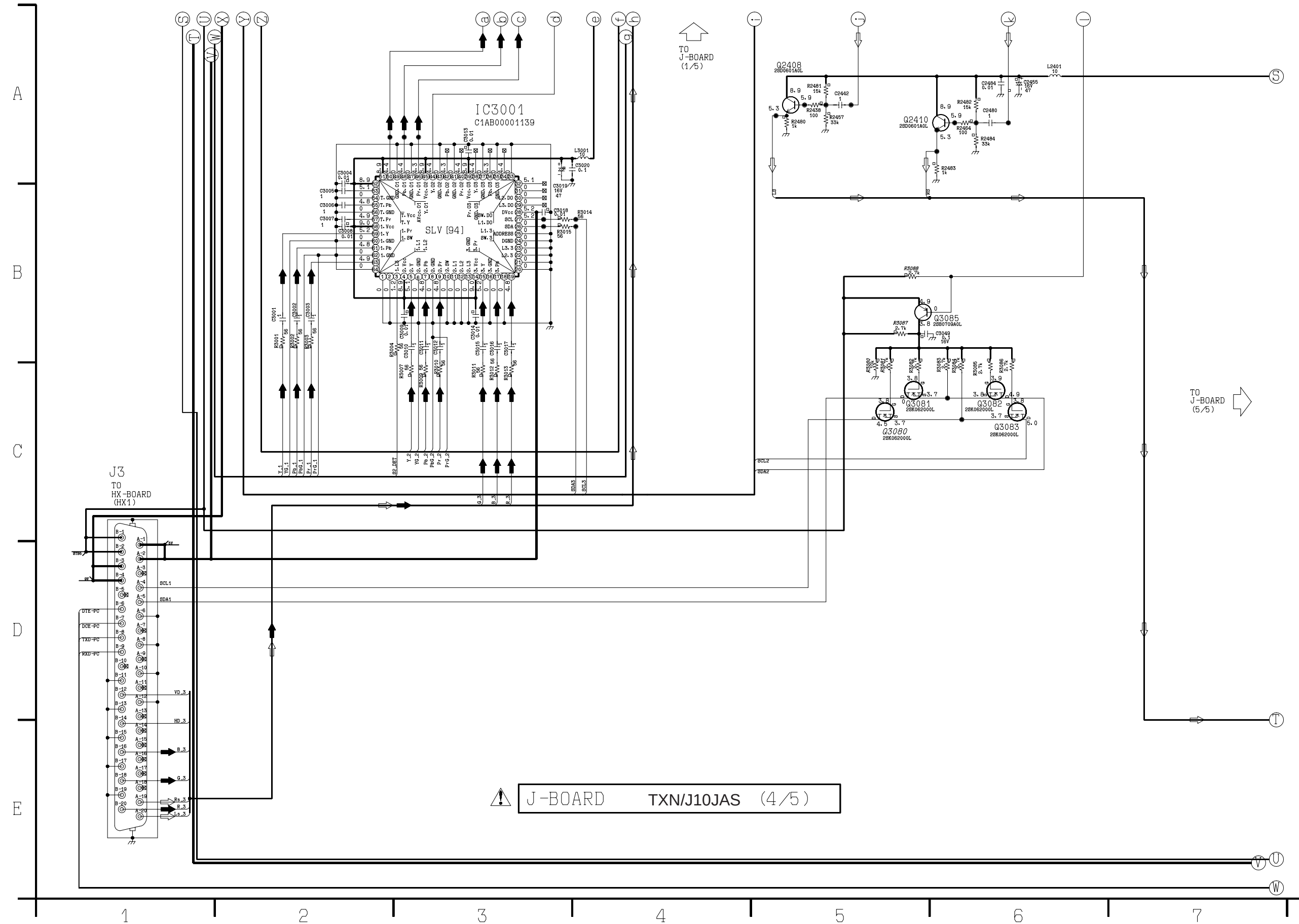
12.14. J-Board (2/5) Schematic Diagrams



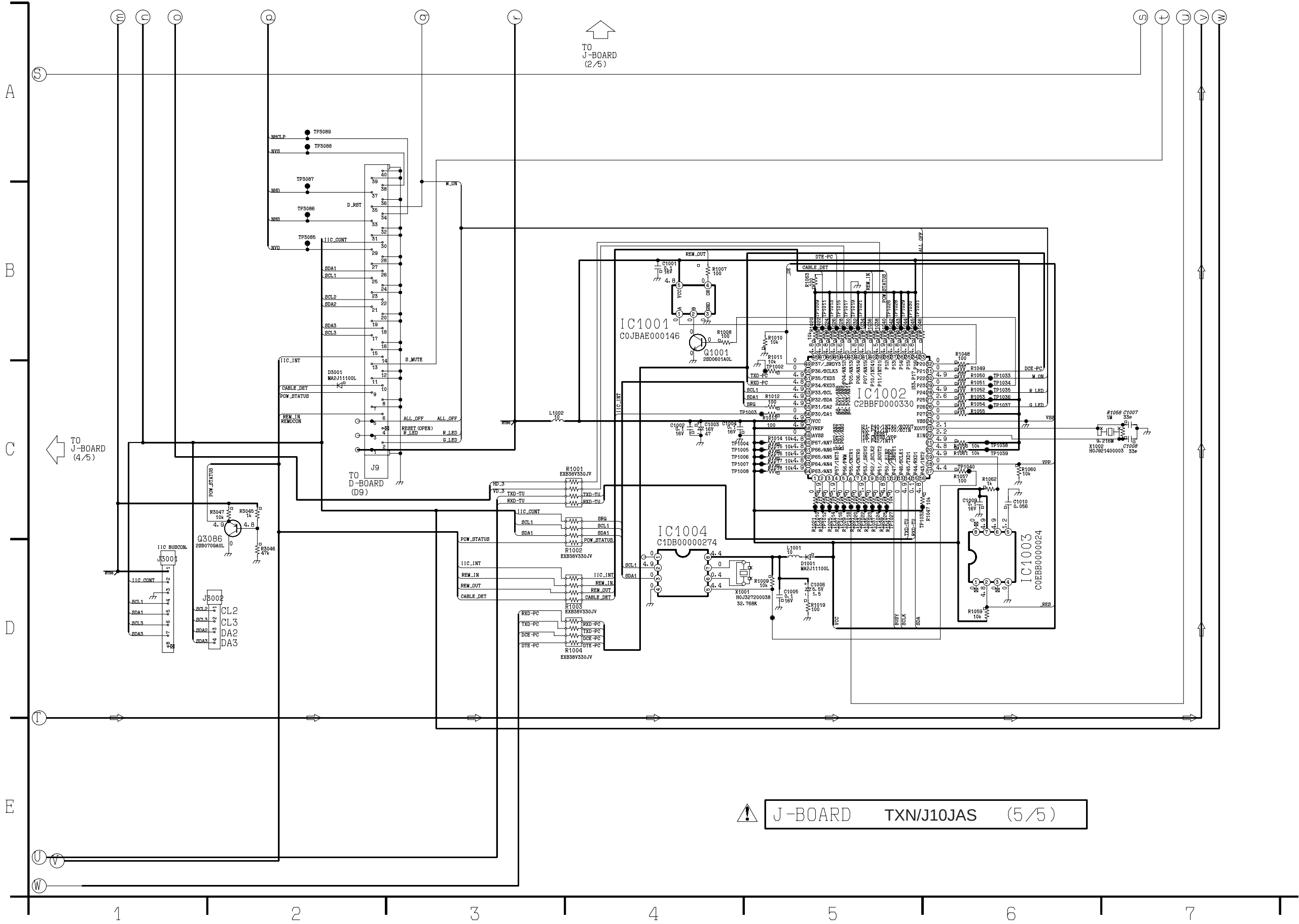
12.15. J-Board (3/5) and H3-Board Schematic Diagrams



12.16. J-Board (4/5) Schematic Diagrams

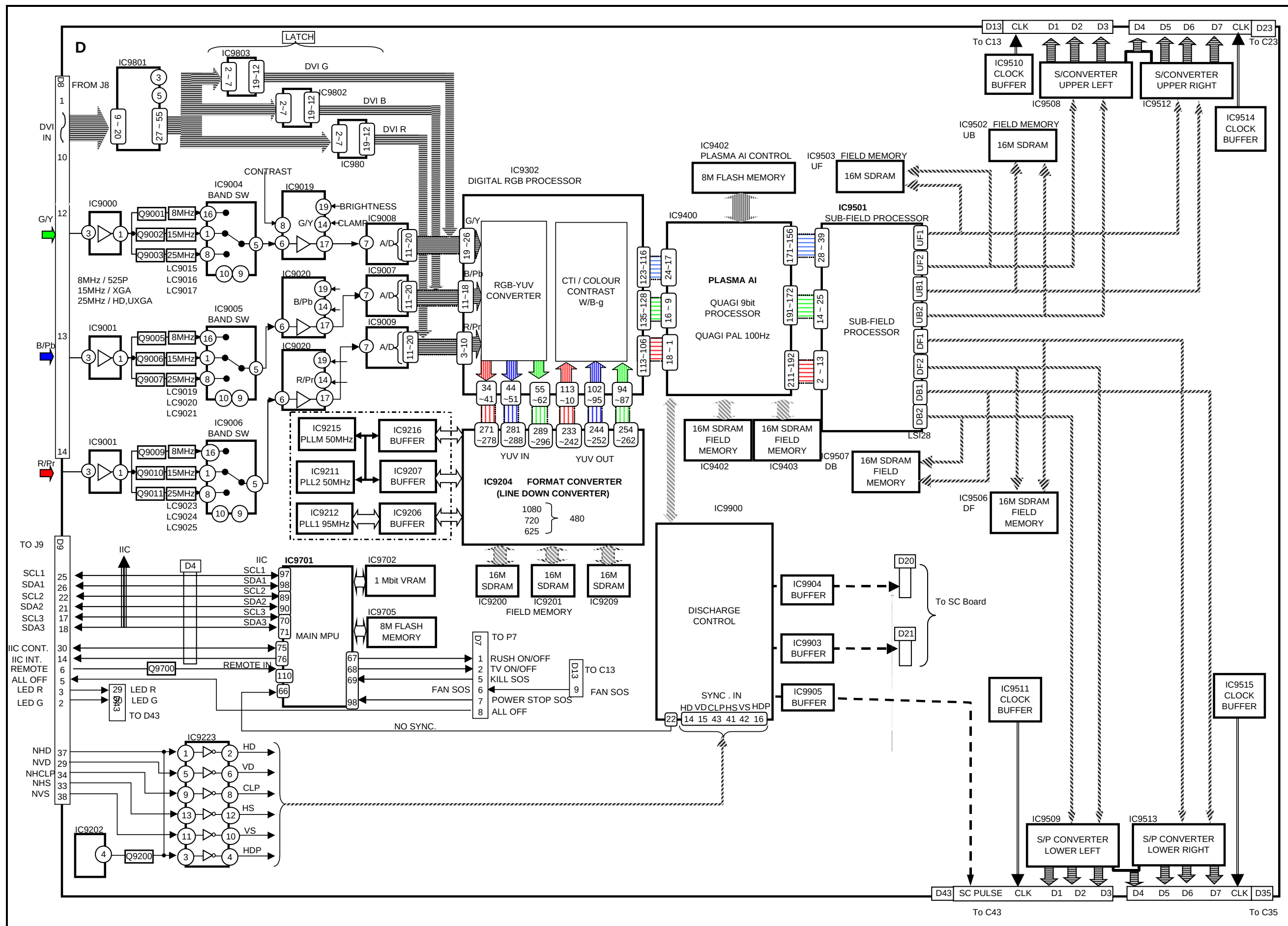


12.17. J-Board (5/5) Schematic Diagrams

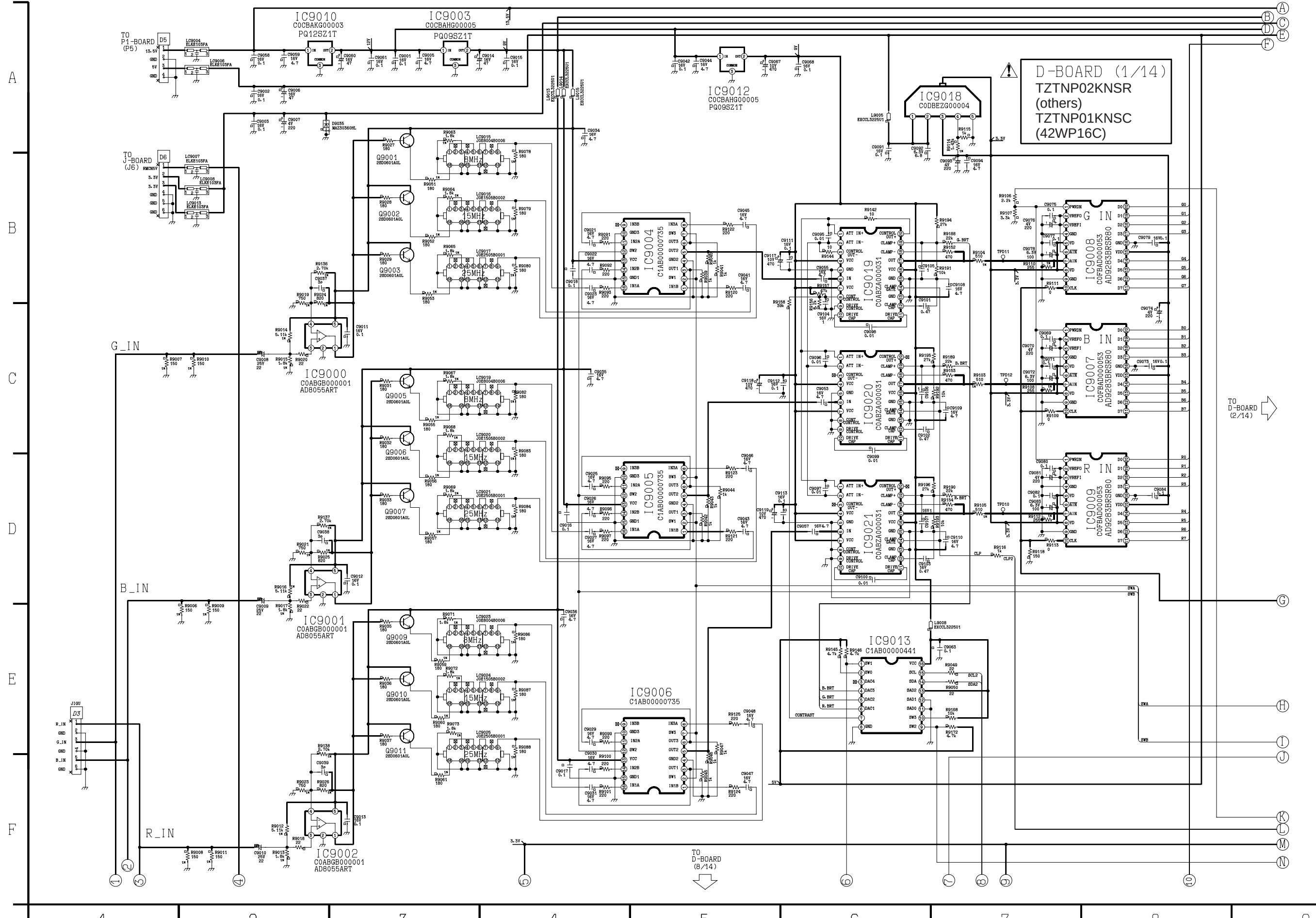


⚠ J-BOARD TXN/J10JAS (5/5)

12.18. D-Block Diagrams

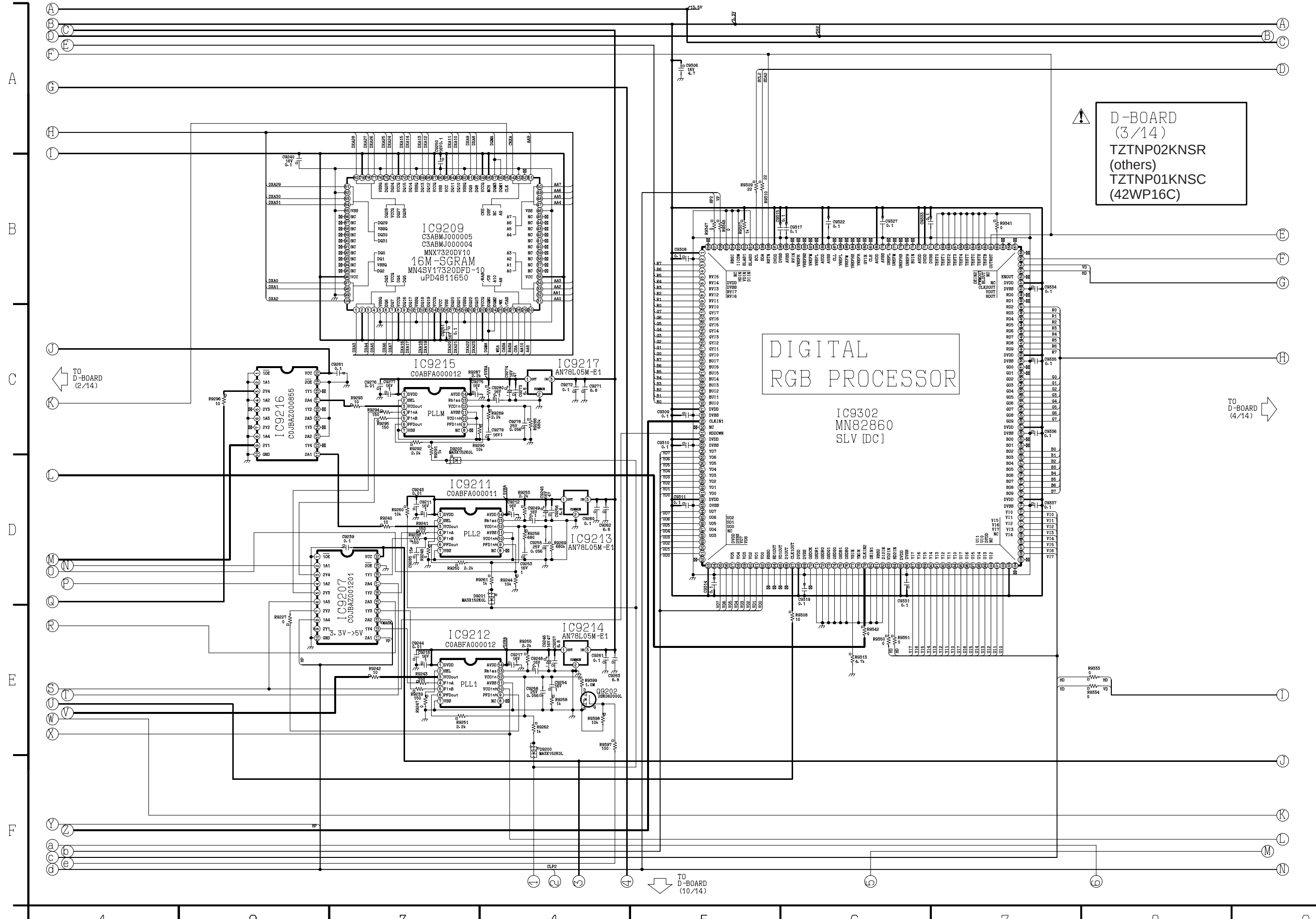


12.19. D-Board (1/14) Schematic Diagrams

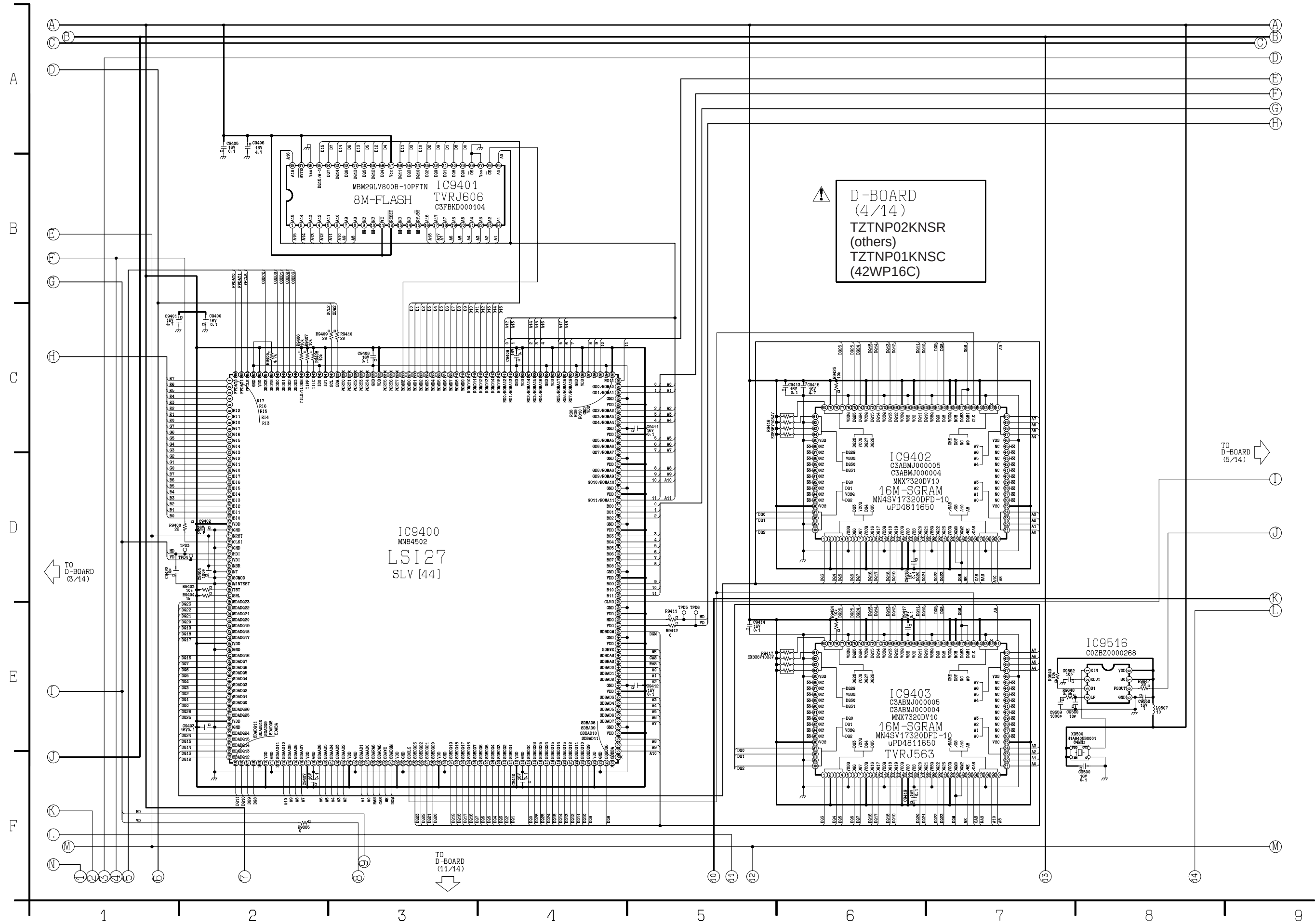


[illegible]

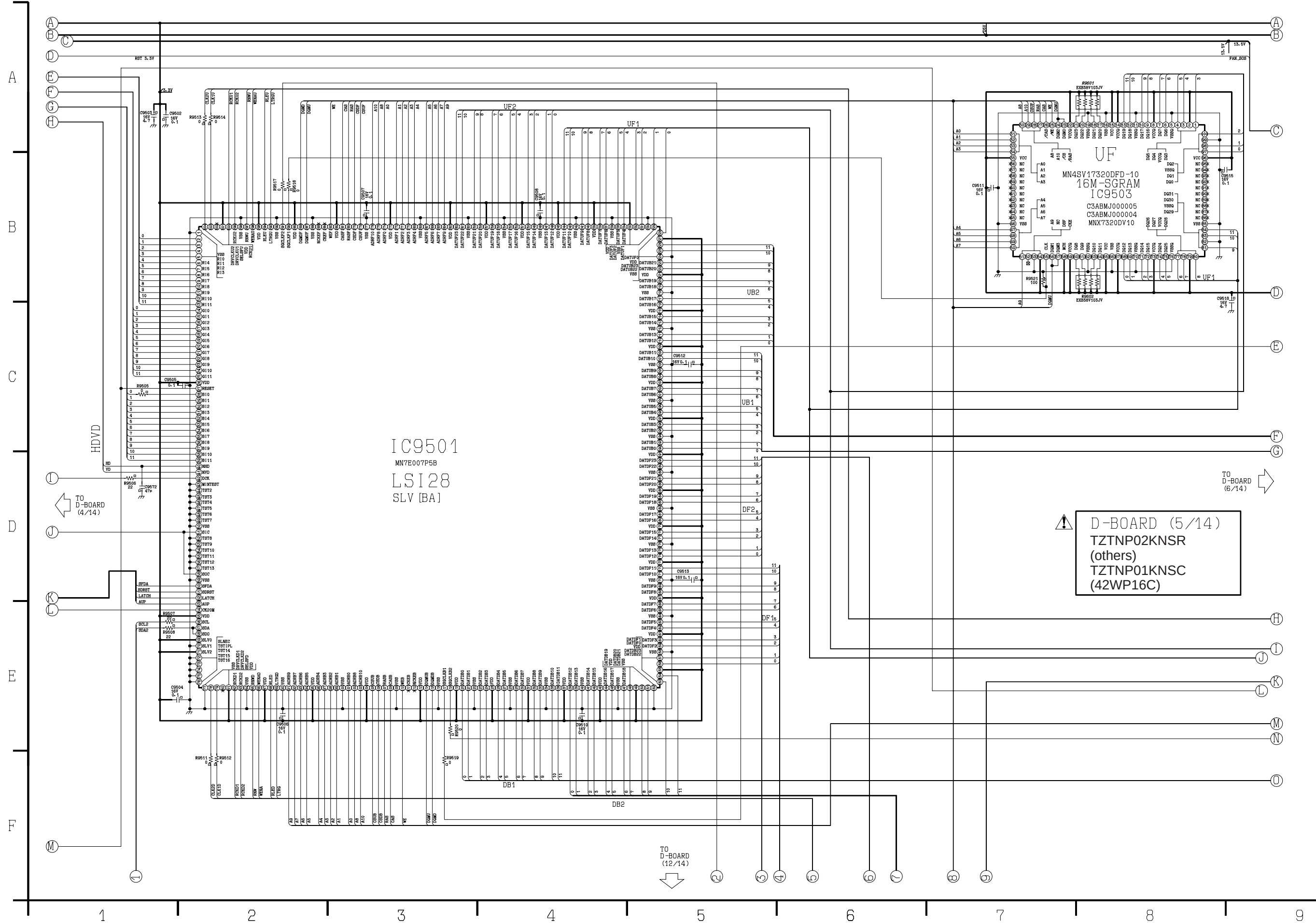
12.21. D-Board (3/14) Schematic Diagrams



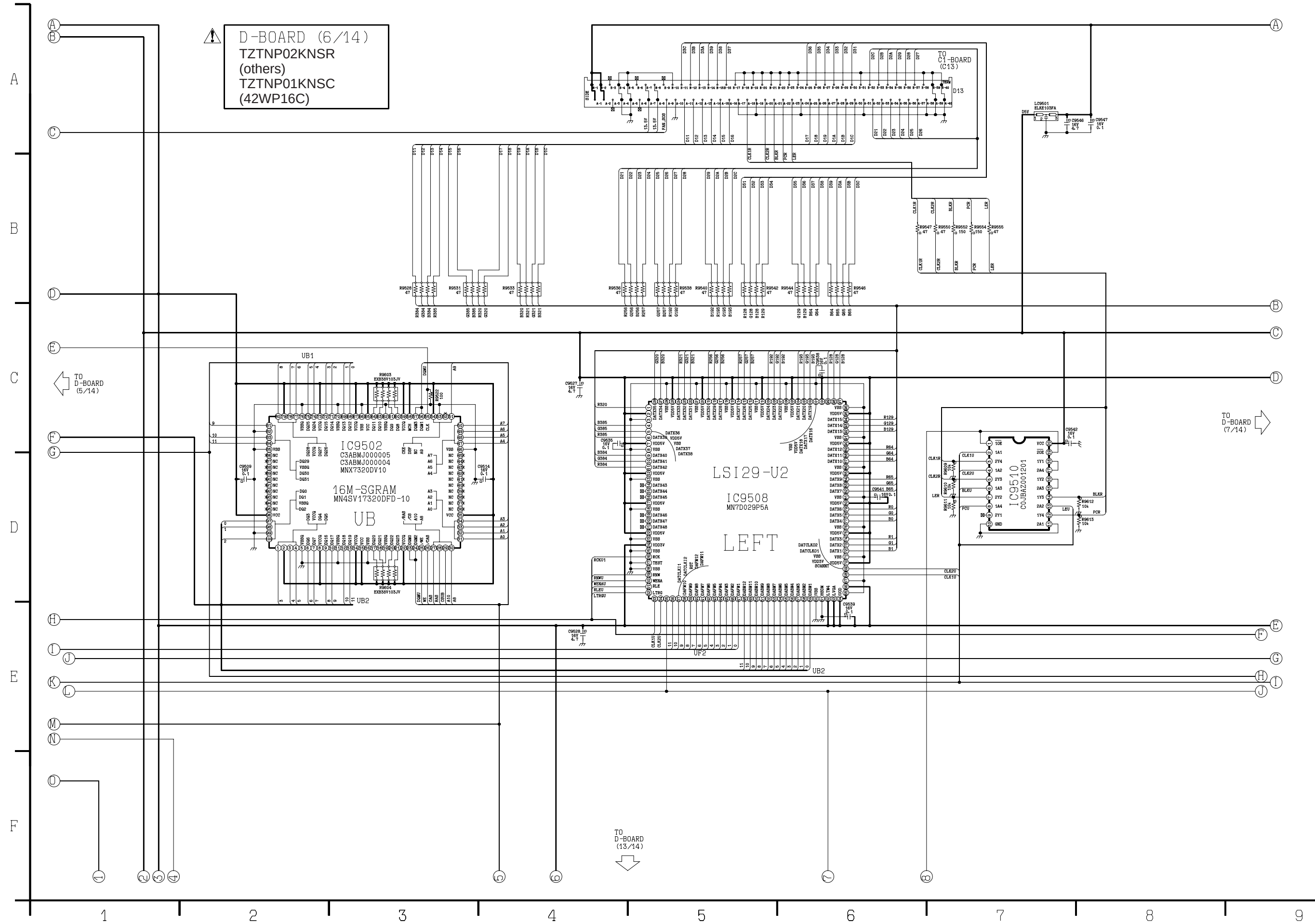
12.22. D-Board (4/14) Schematic Diagrams



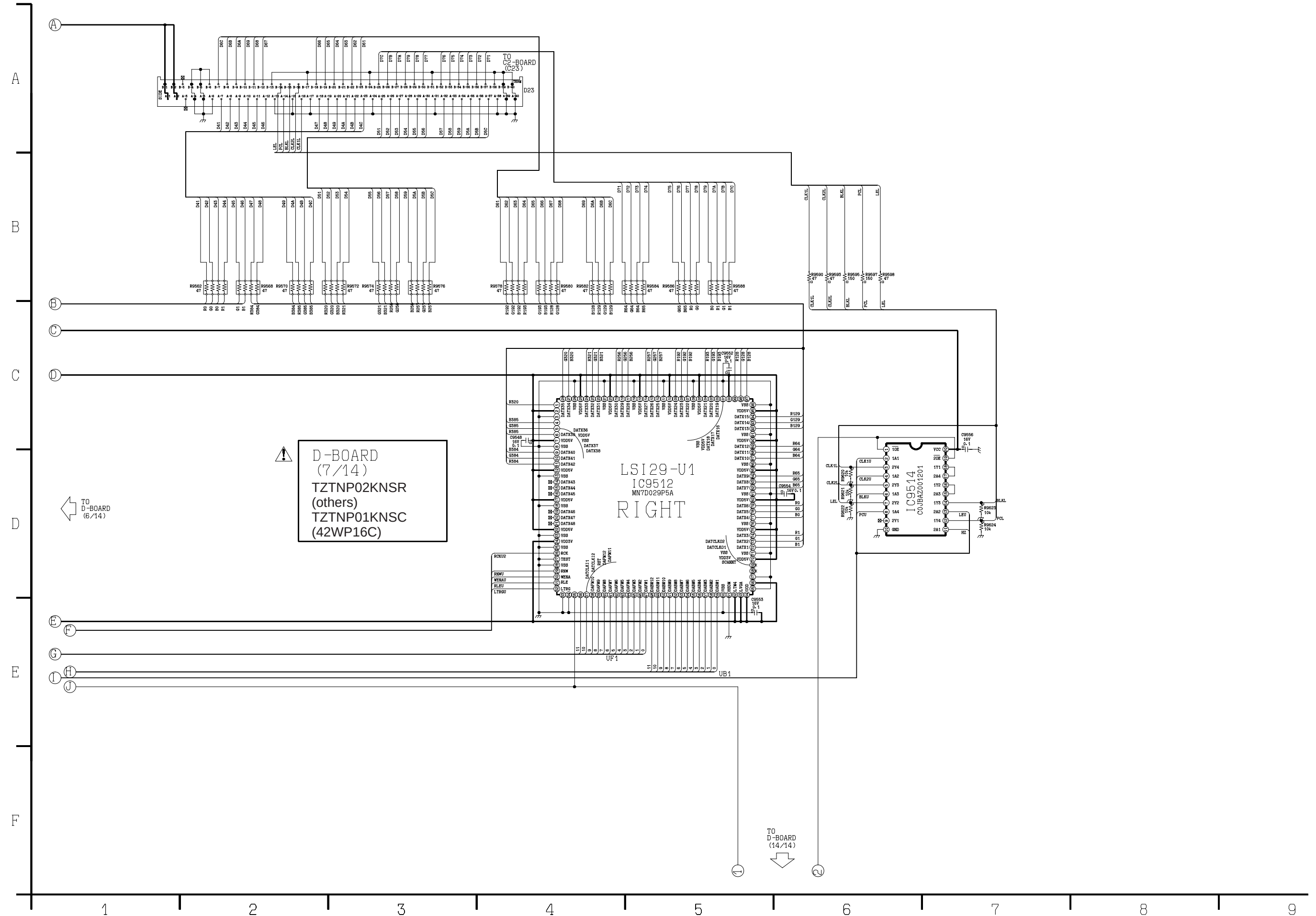
12.23. D-Board (5/14) Schematic Diagrams



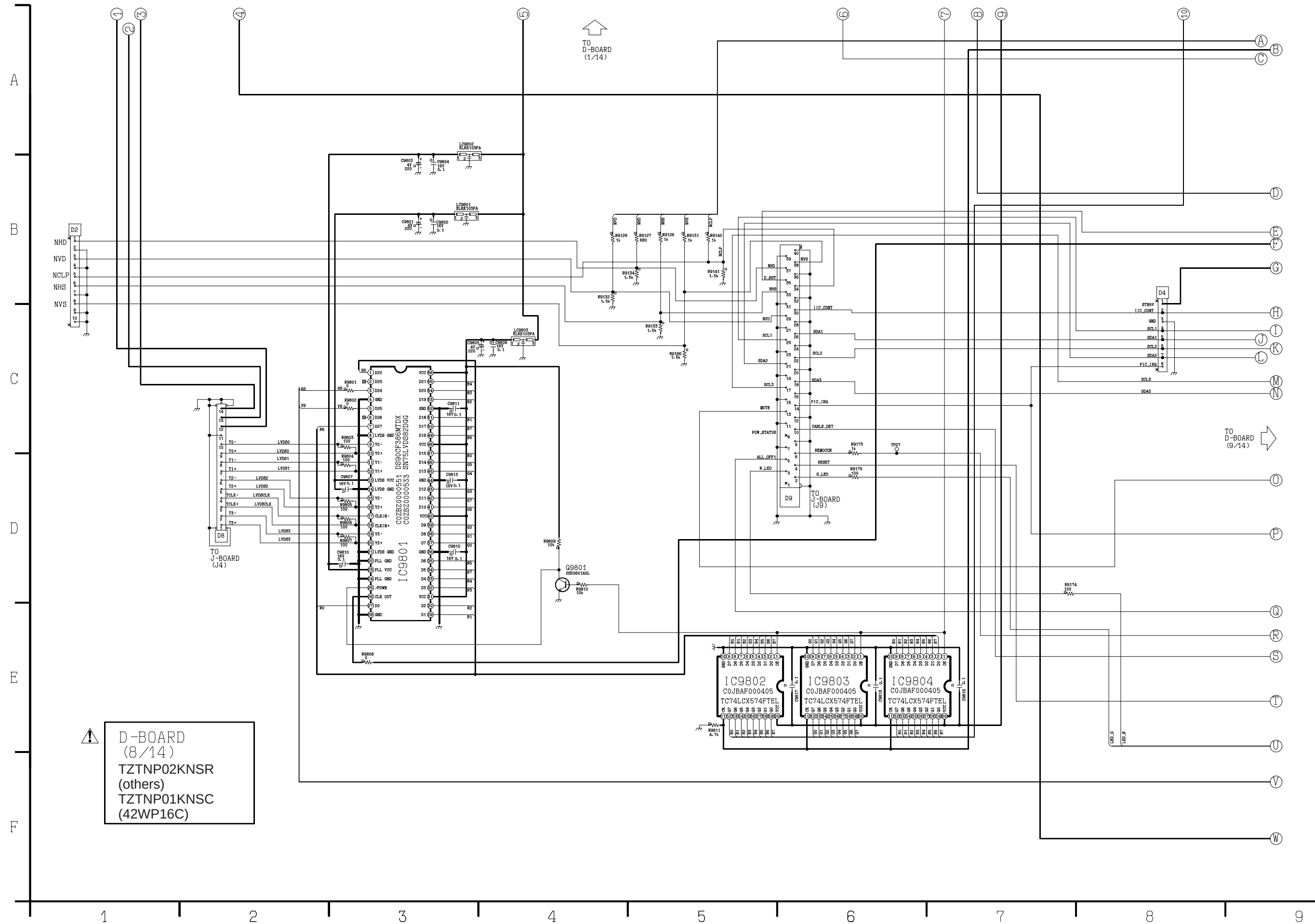
12.24. D-Board (6/14) Schematic Diagrams



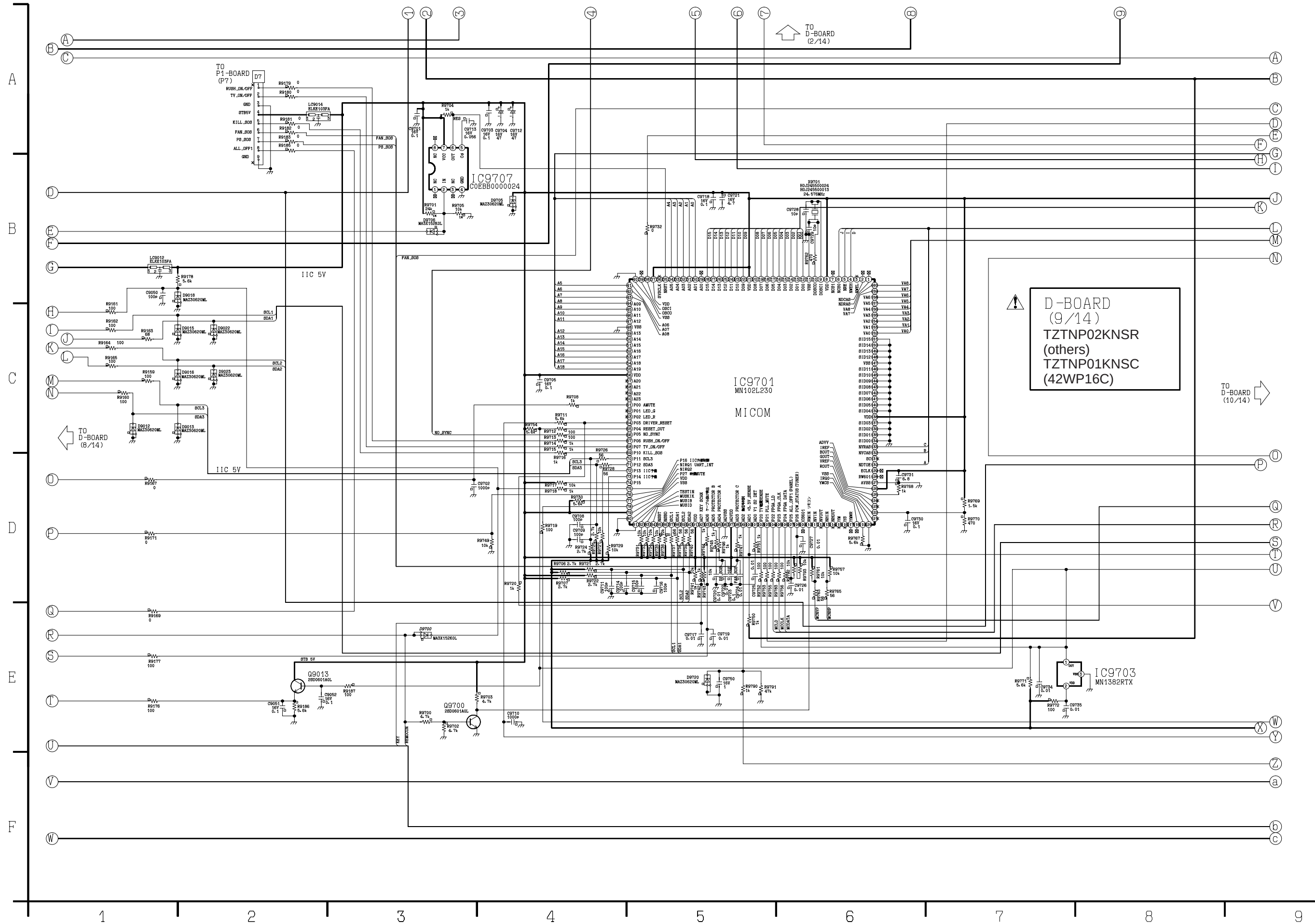
12.25. D-Board (7/14) Schematic Diagrams



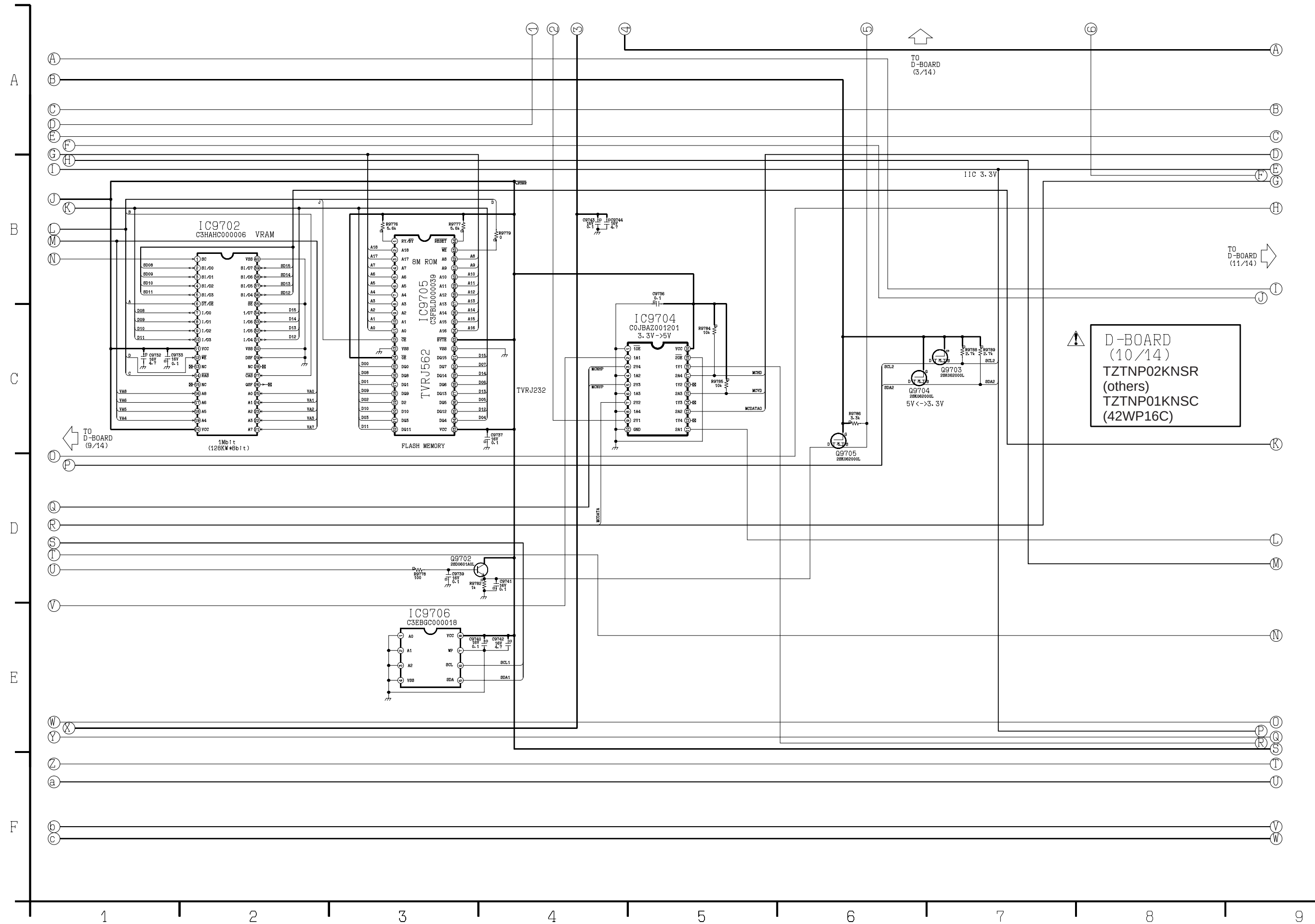
12.26. D-Board (8/14) Schematic Diagrams



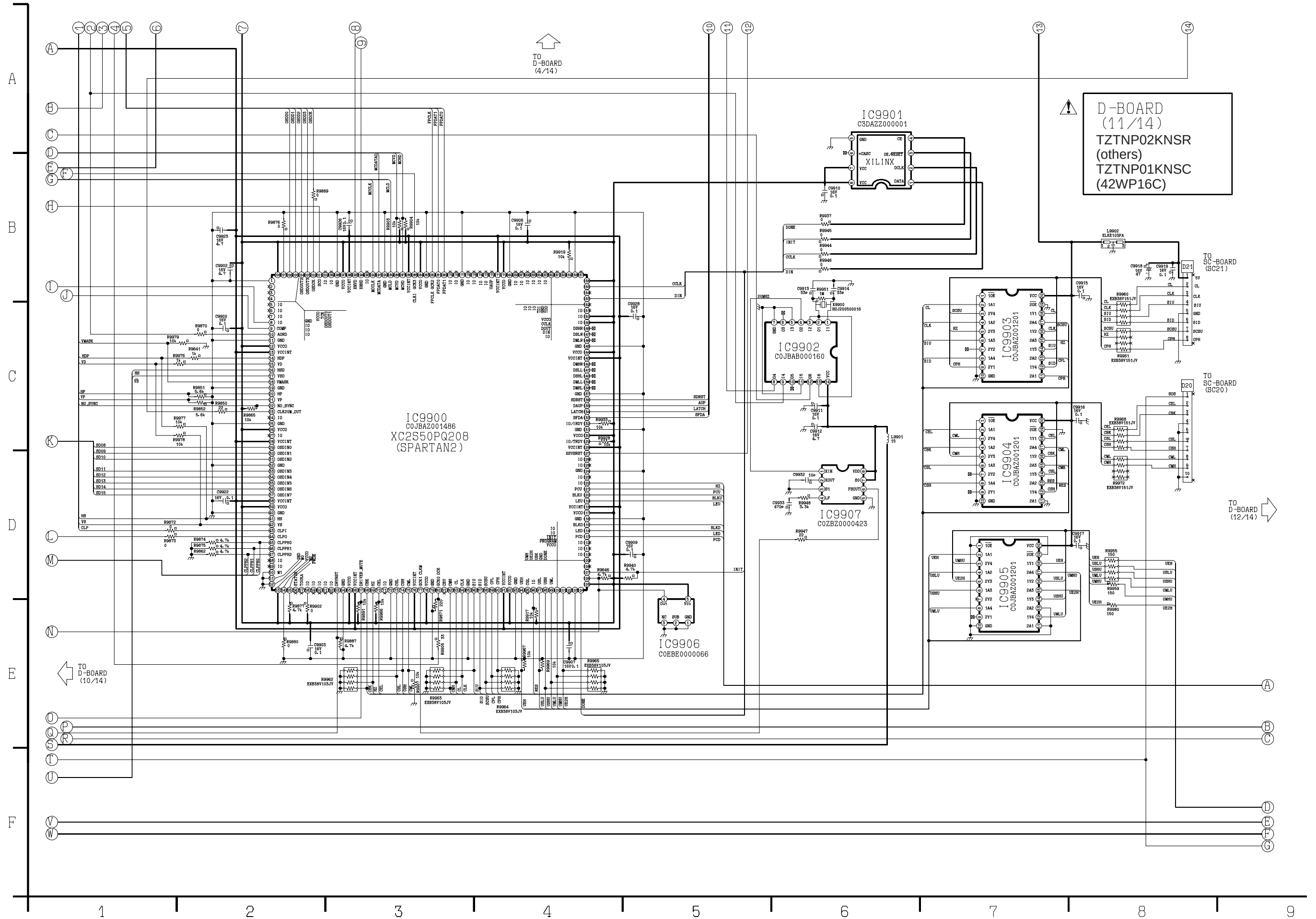
12.27. D-Board (9/14) Schematic Diagrams



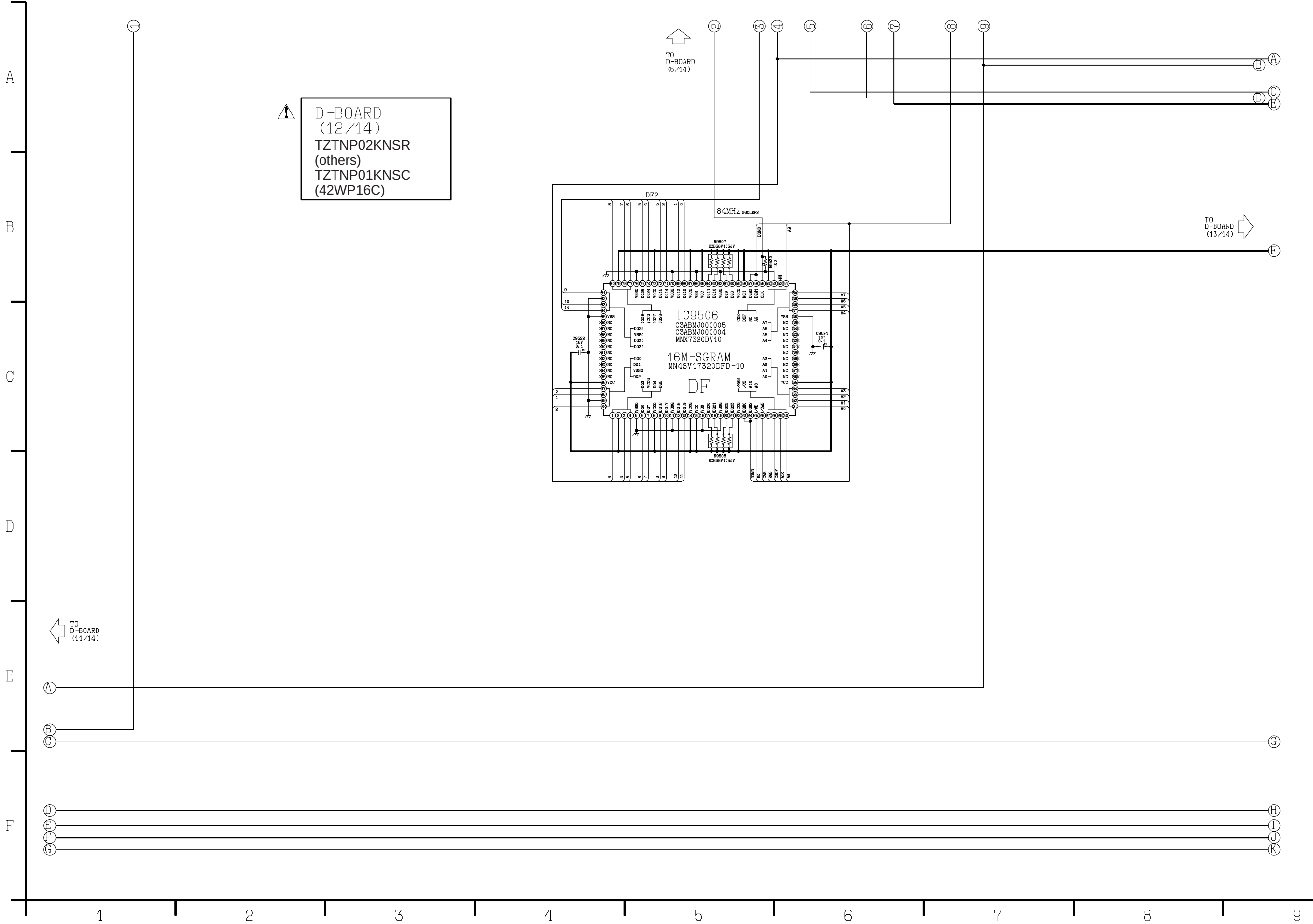
12.28. D-Board (10/14) Schematic Diagrams



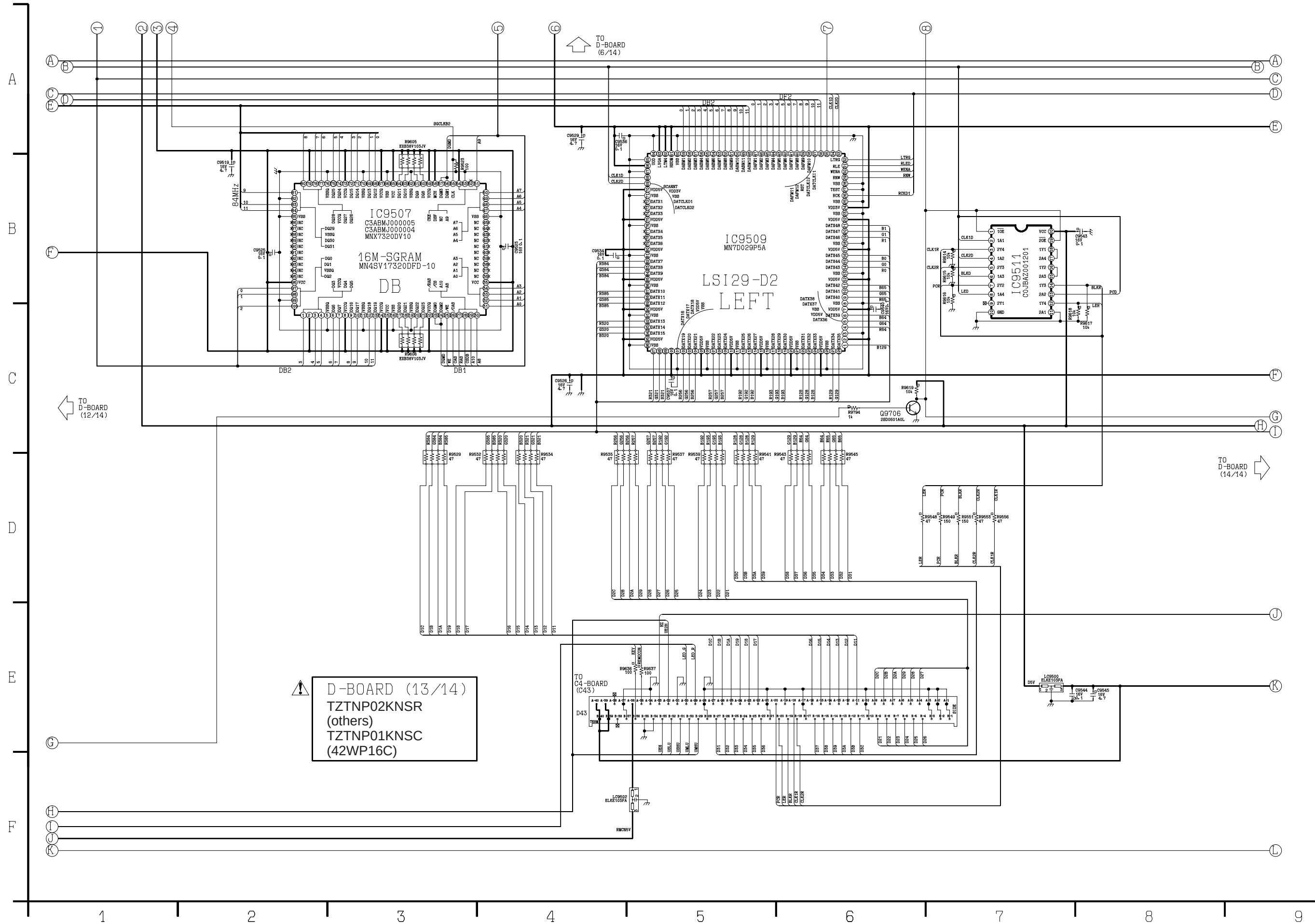
12.29. D-Board (11/14) Schematic Diagrams



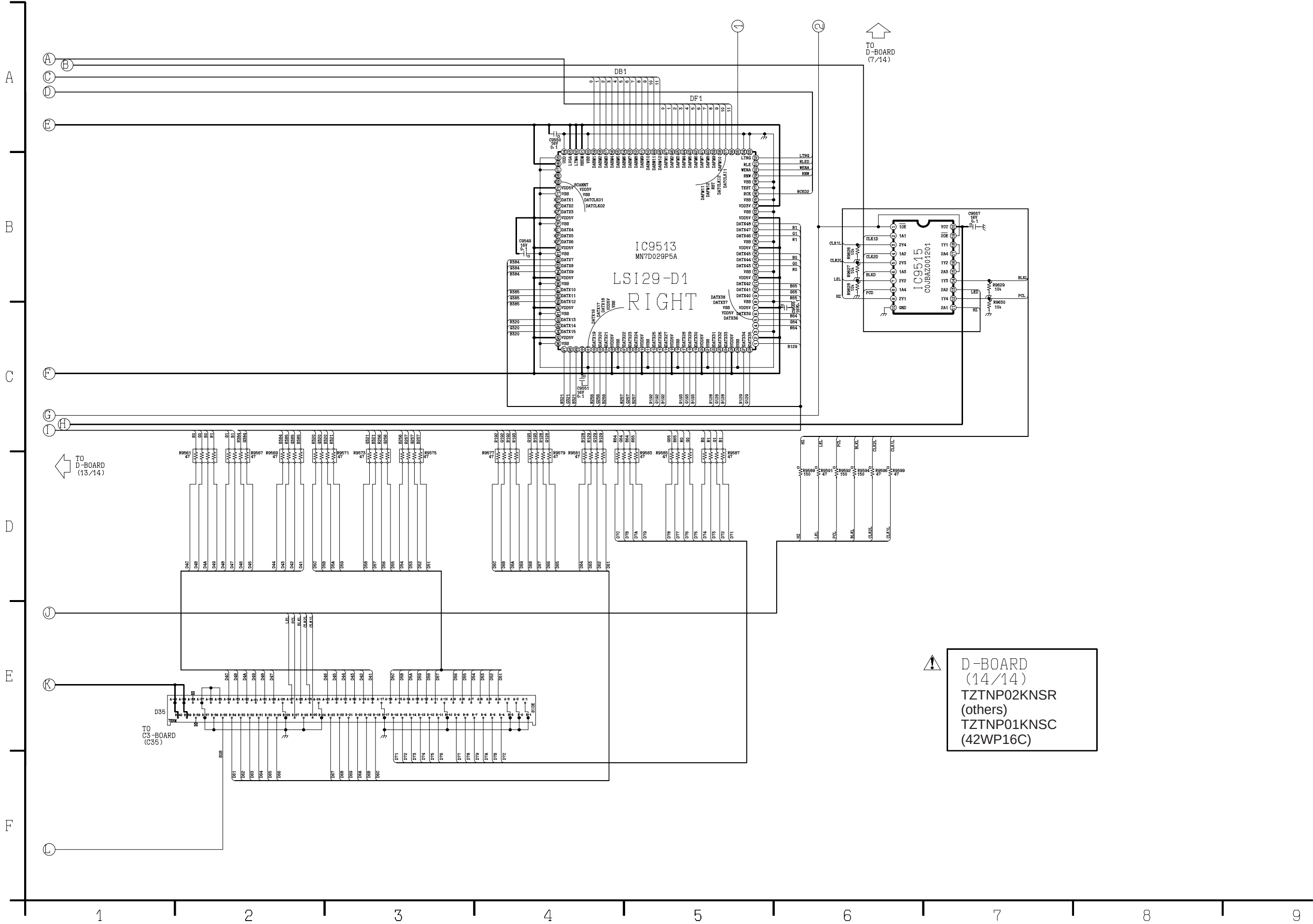
12.30. D-Board (12/14) Schematic Diagrams



12.31. D-Board (13/14) Schematic Diagrams

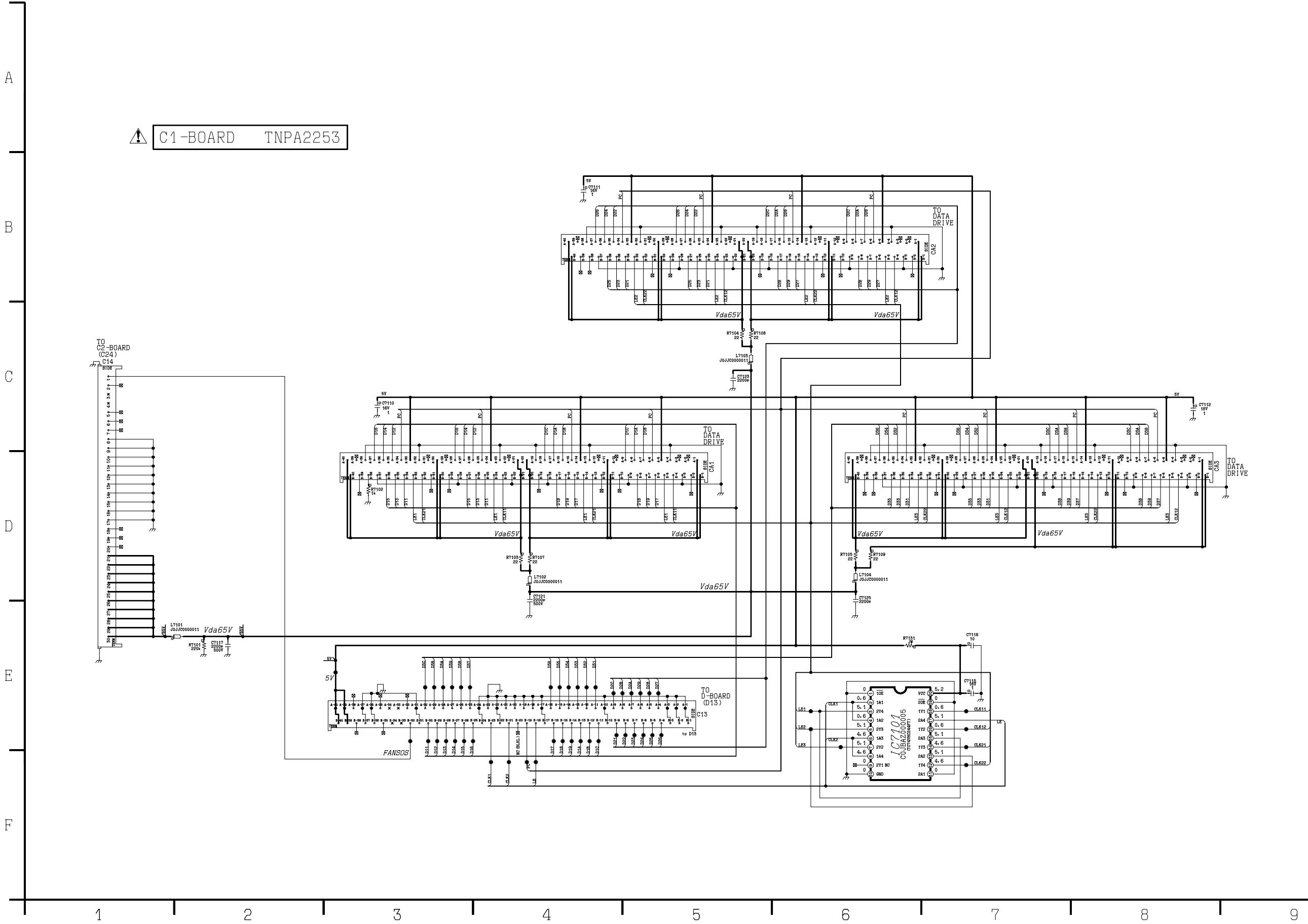


12.32. D-Board (14/14) Schematic Diagrams



⚠ D-BOARD (14/14)
TZTNP02KNSR (others)
TZTNP01KNSC (42WP16C)

12.33. C1-Board Schematic Diagrams



12.34. C2-Board Schematic Diagrams

A

B

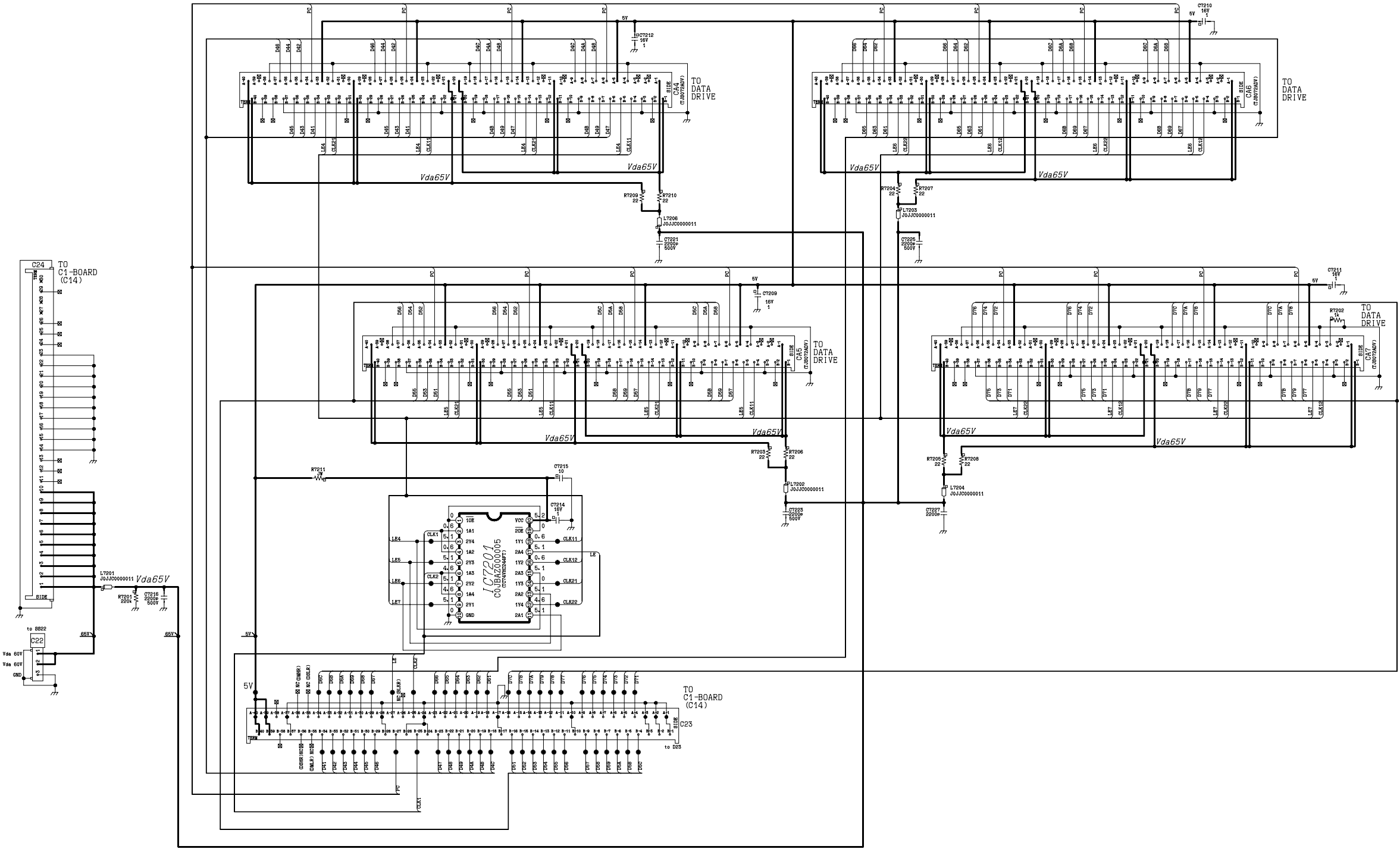
C

D

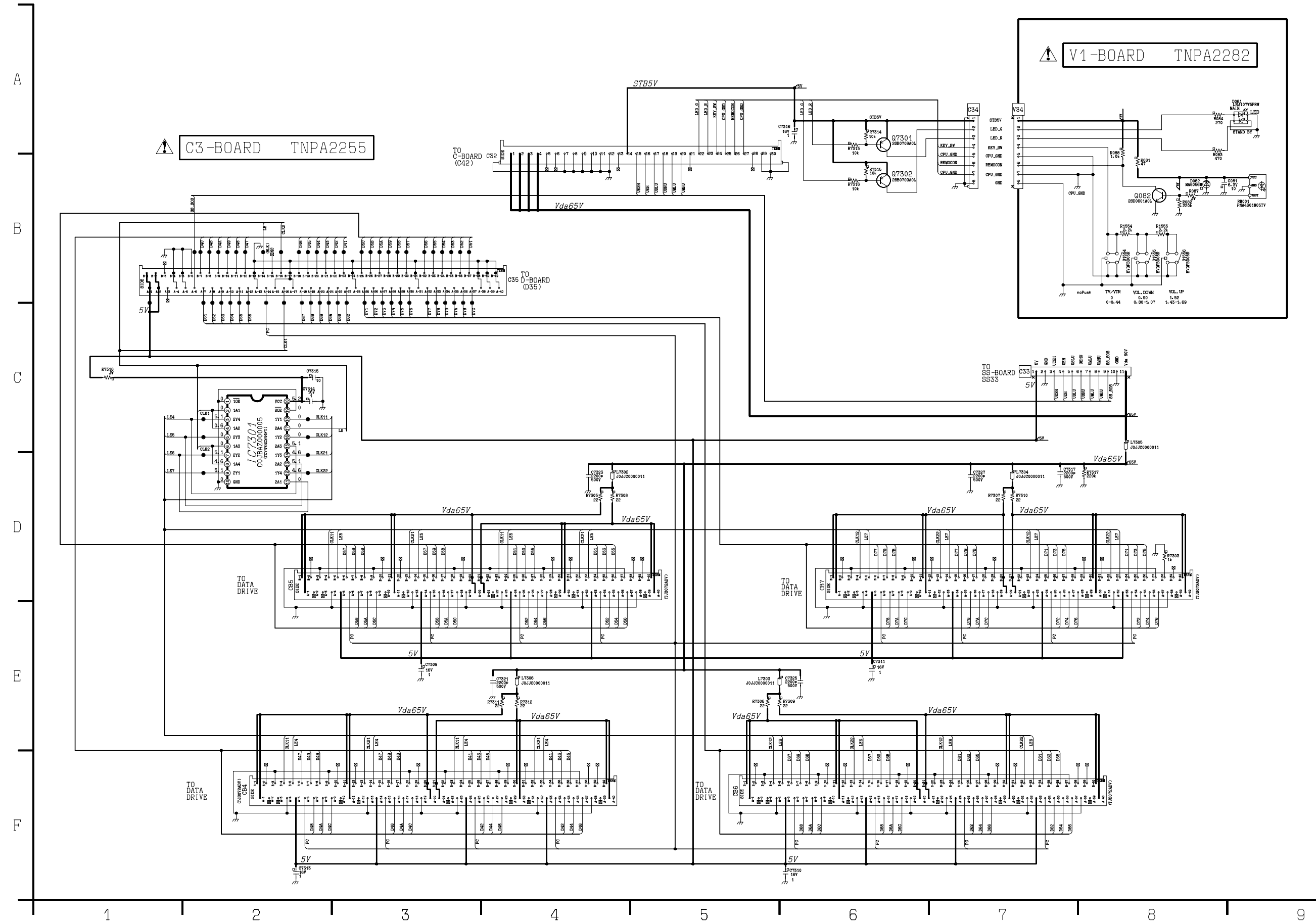
E

F

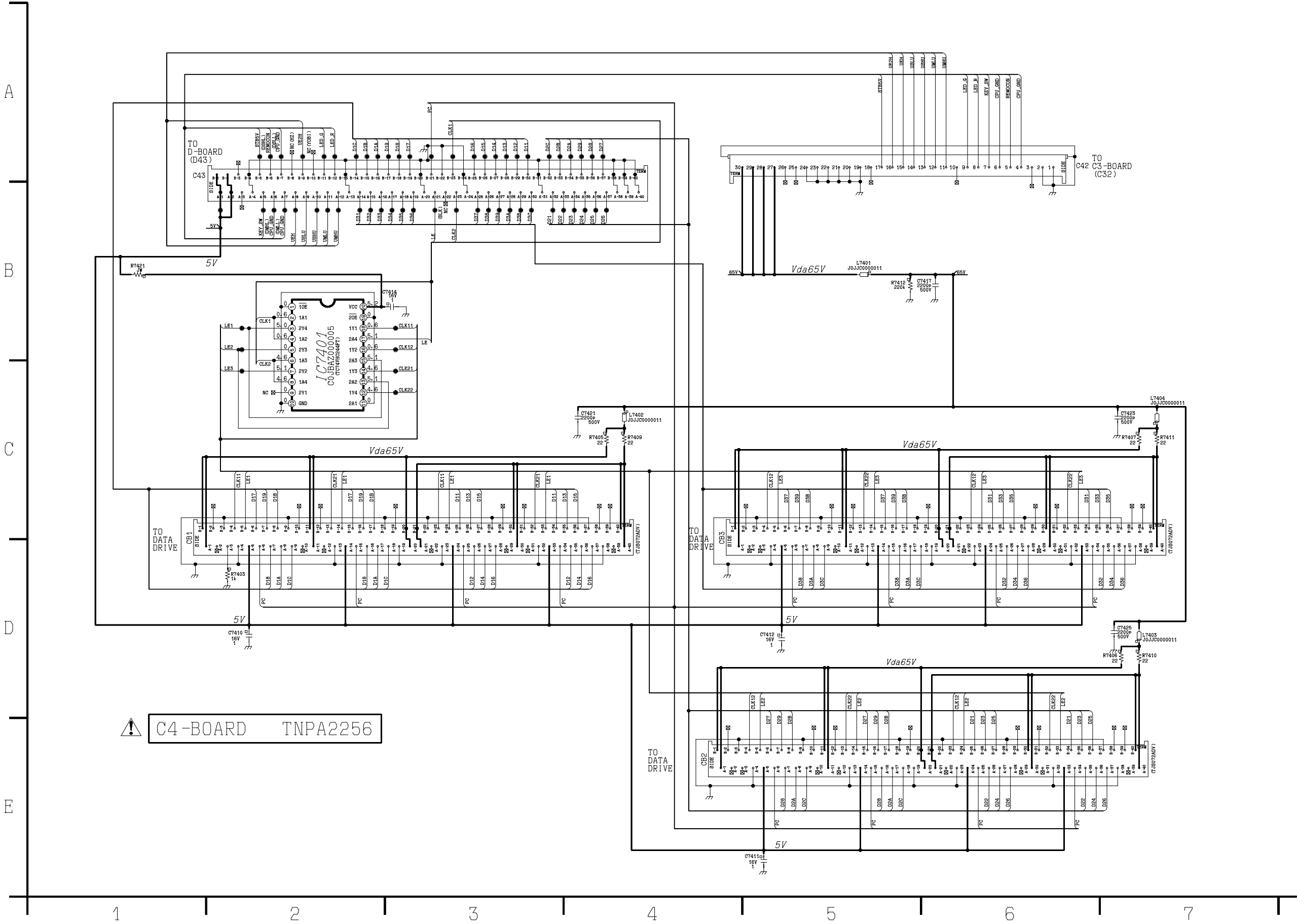
C2-BOARD TNPA2254



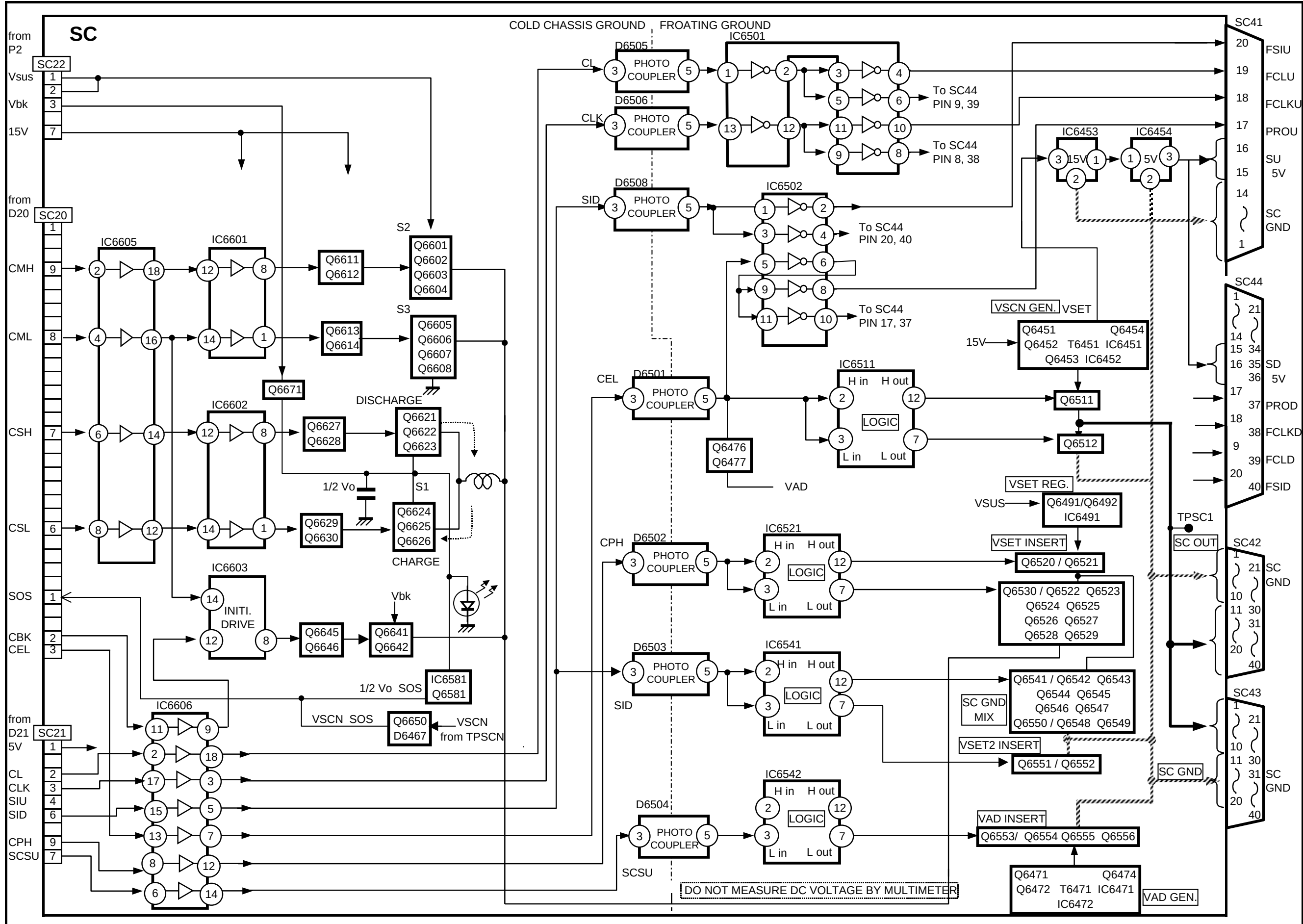
12.35. C3-Board and V1-Board Schematic Diagrams



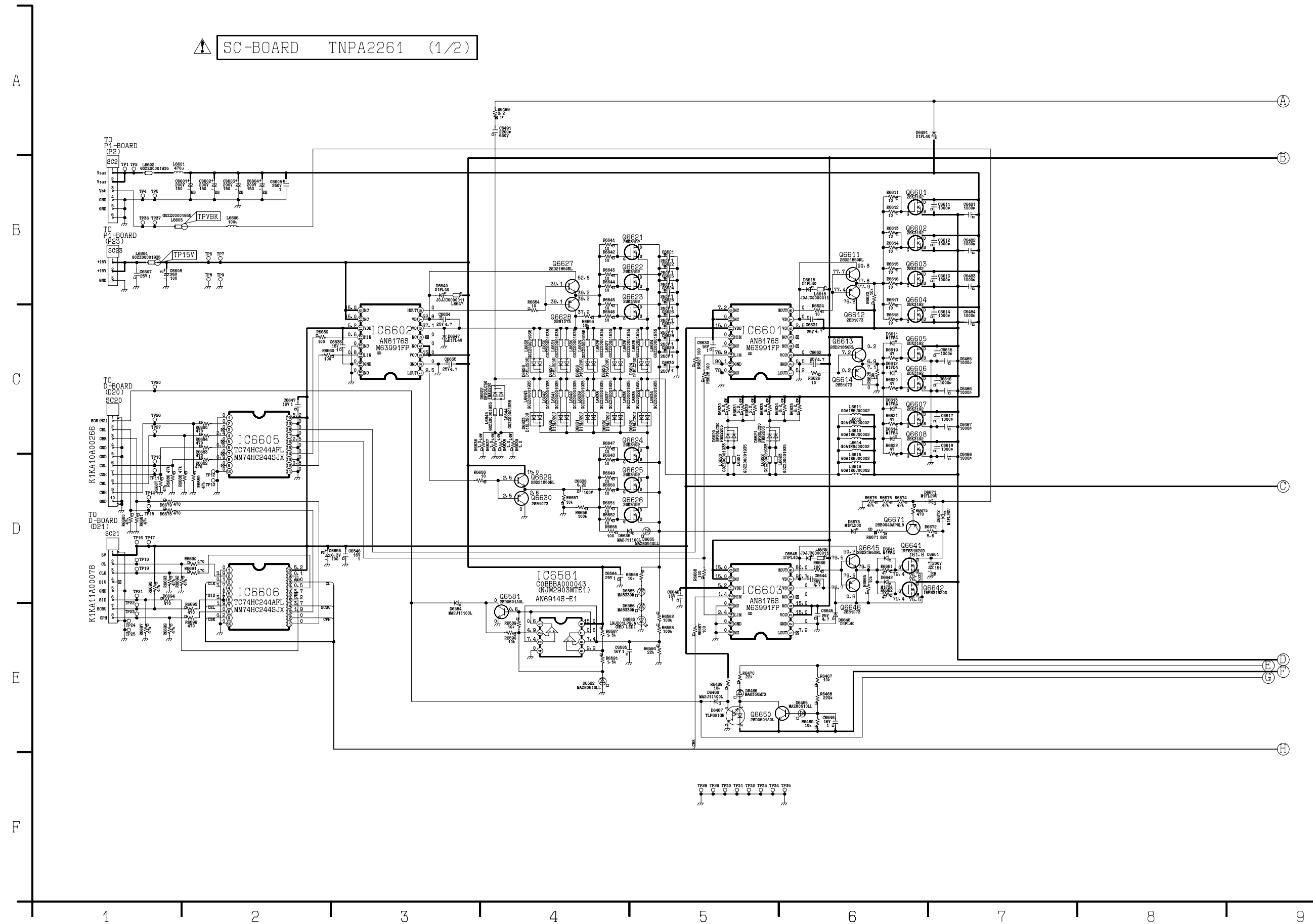
12.36. C4-Board Schematic Diagrams



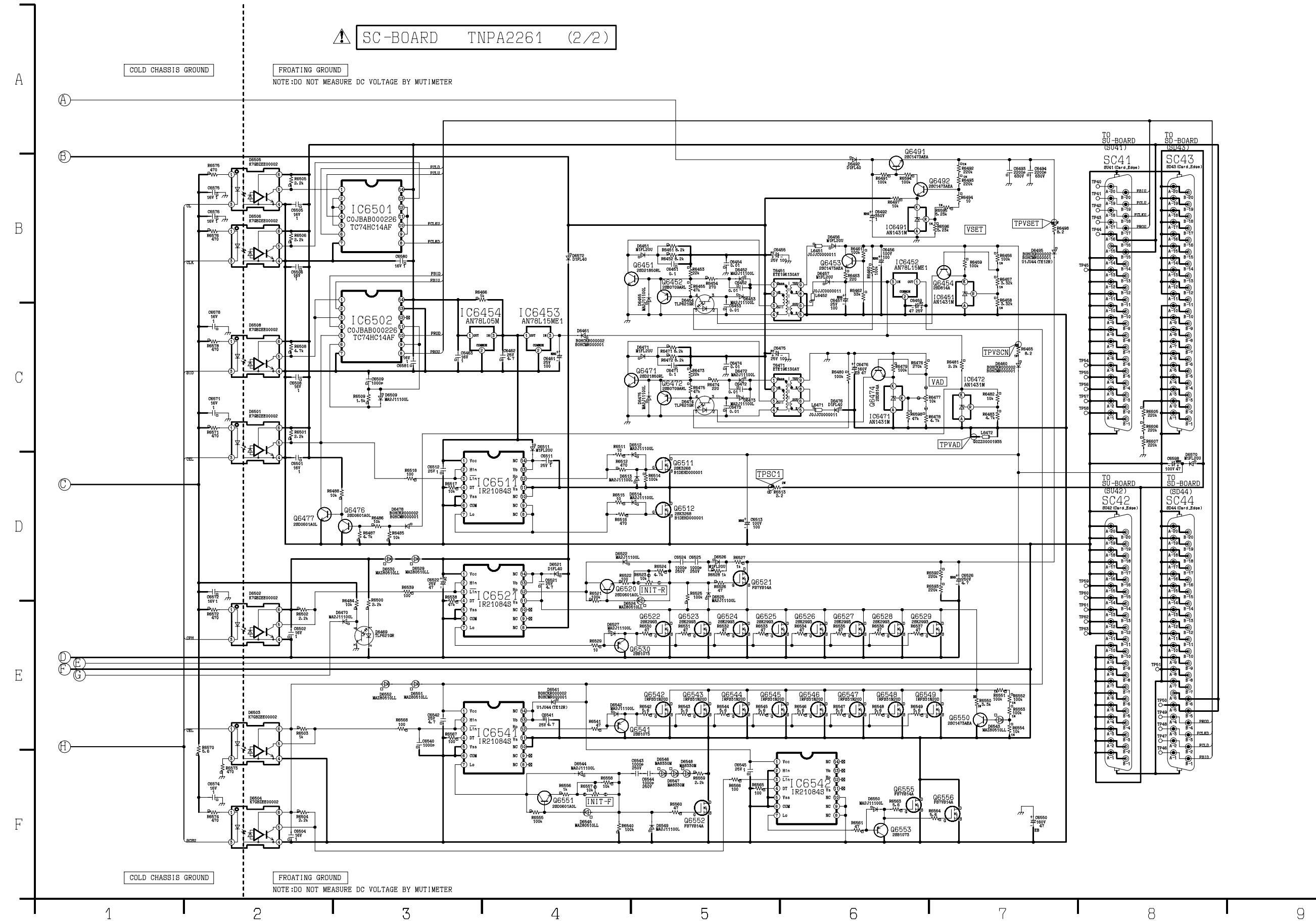
12.37. SC-Board Block Diagrams



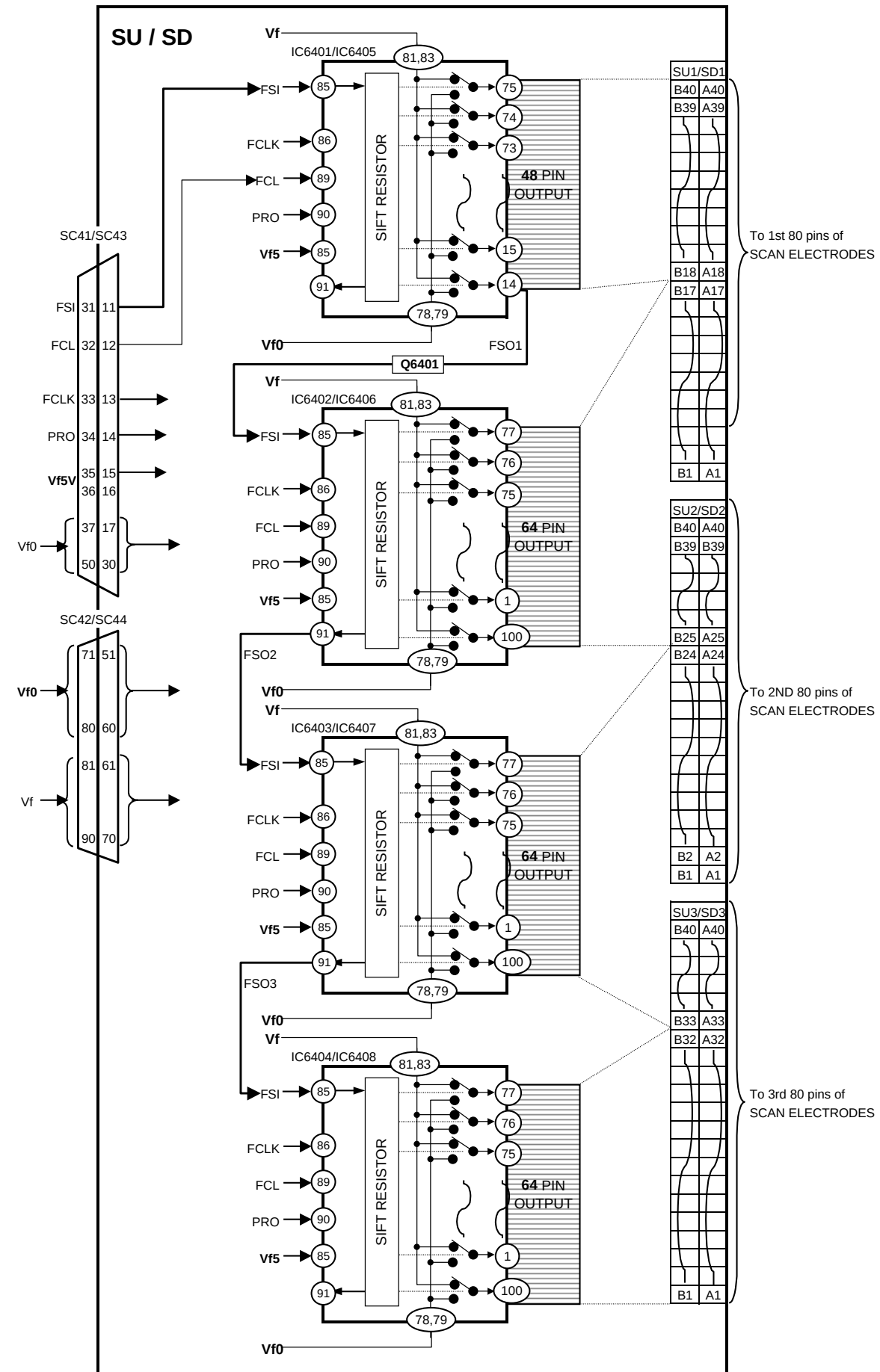
12.38. SC-Board (1/2) Schematic Diagrams



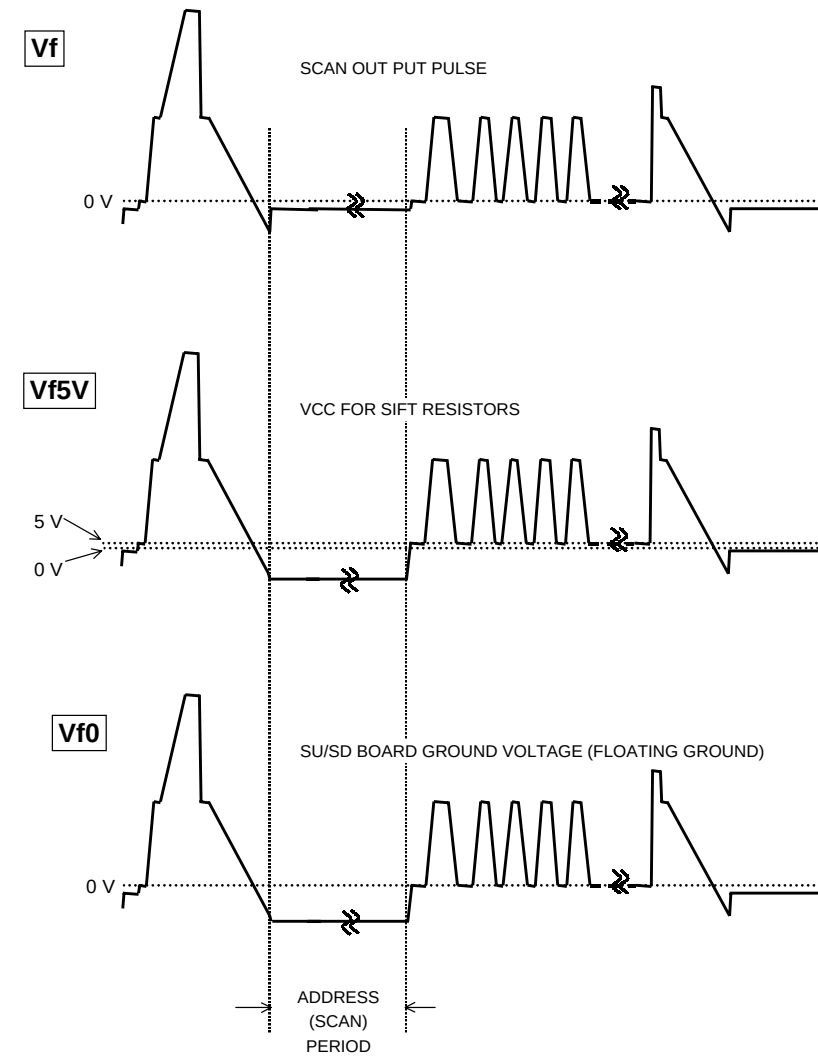
12.39. SC-Board (2/2) Schematic Diagrams



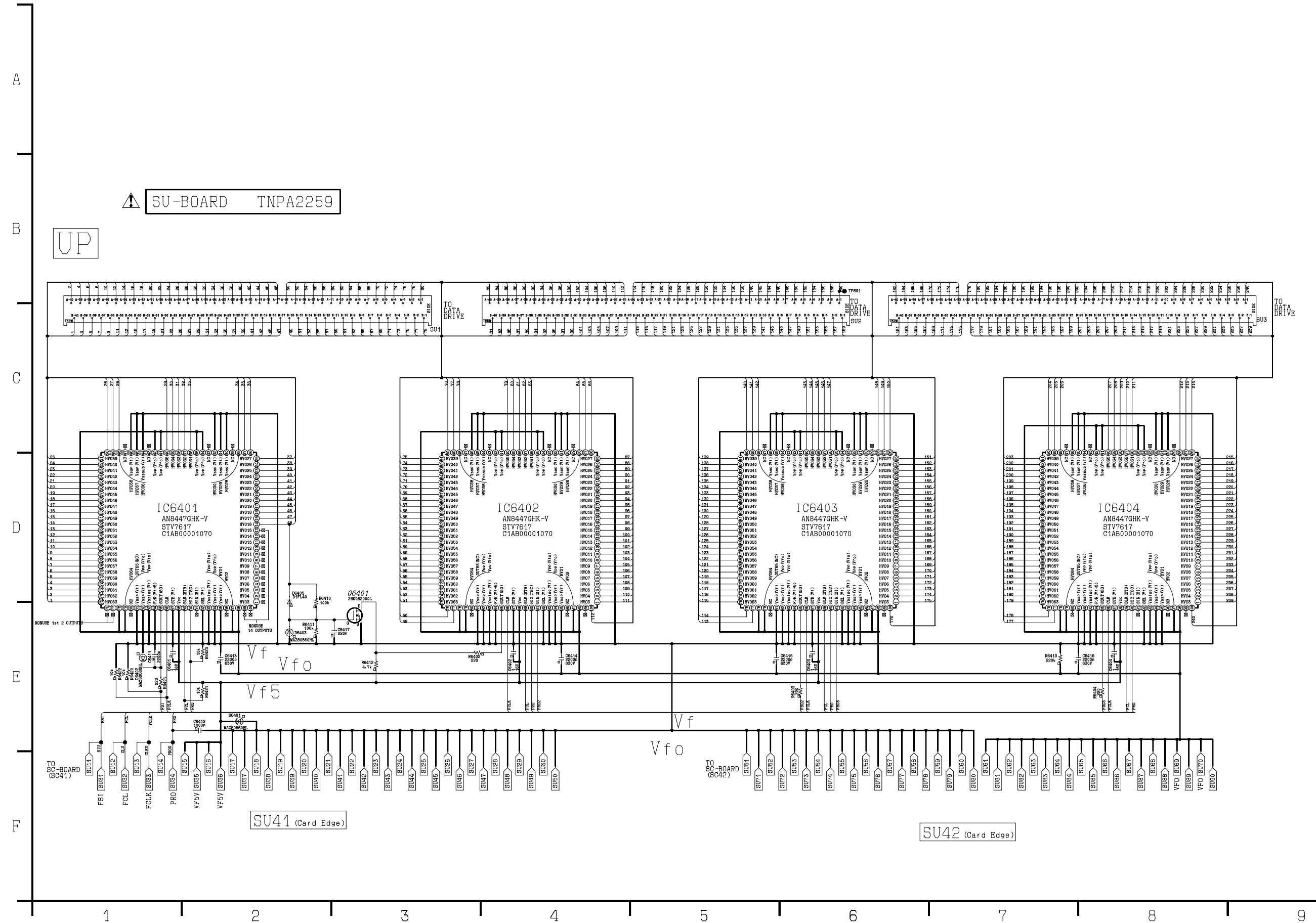
12.40. SU/SD Block Diagram



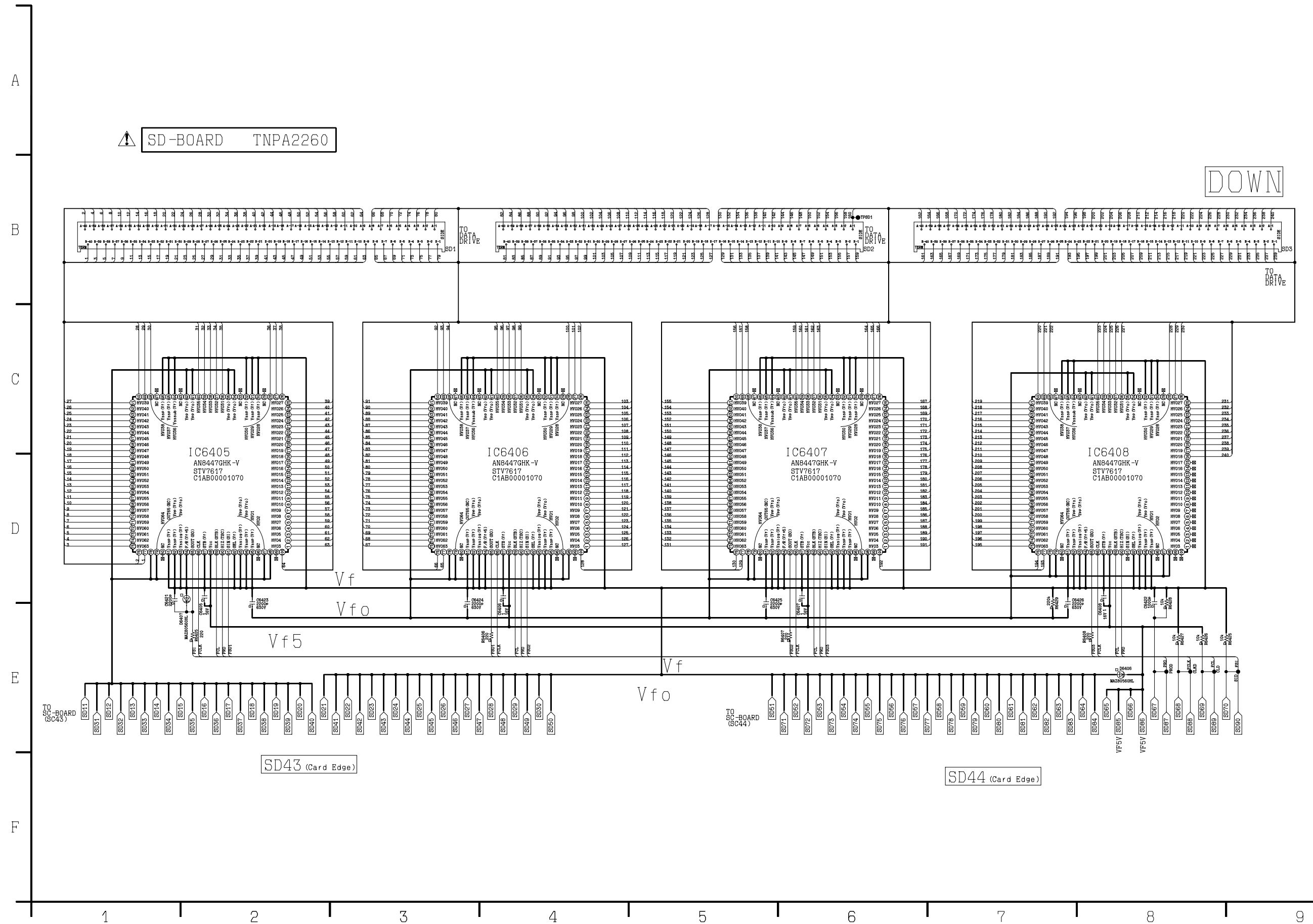
Note:



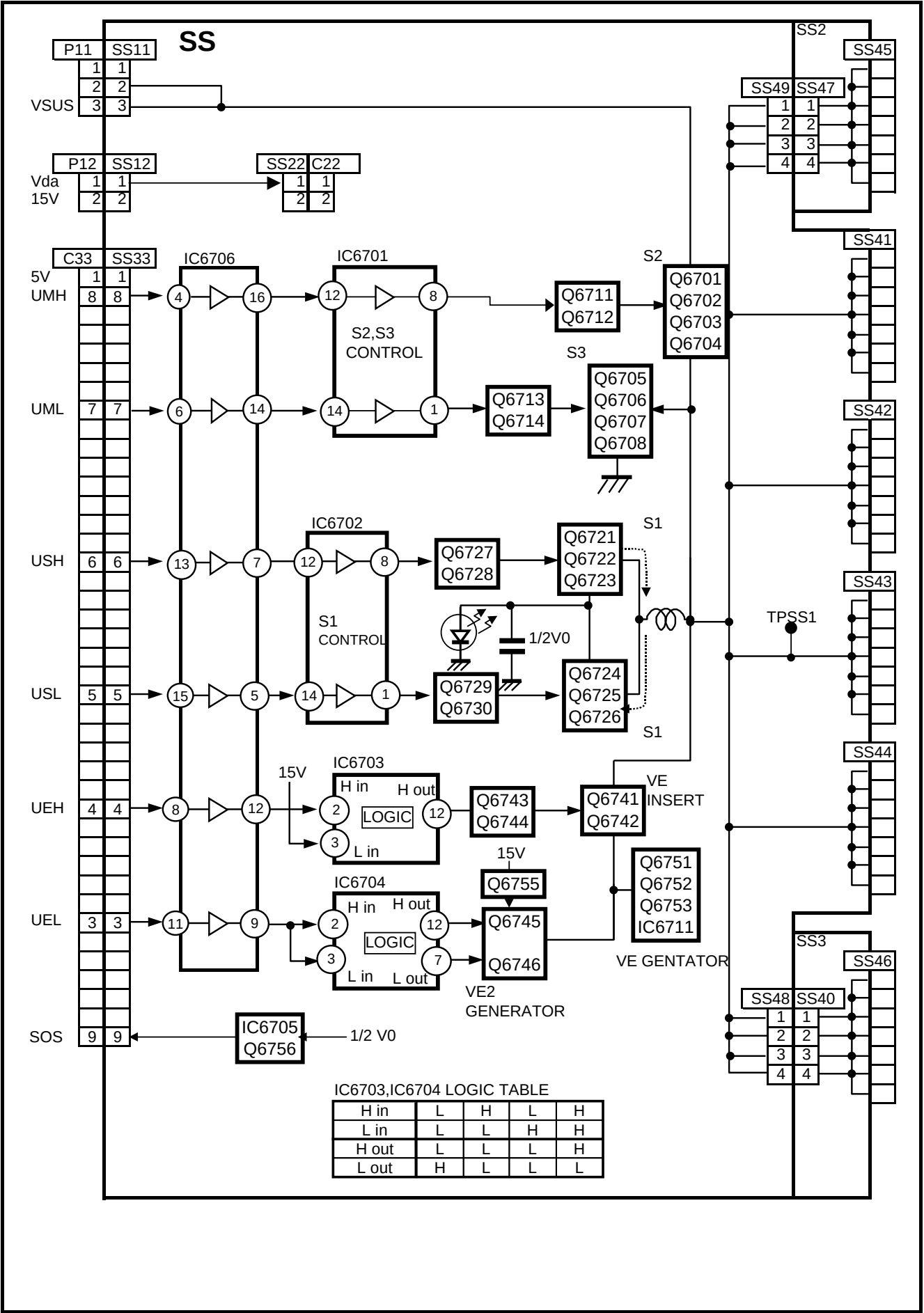
12.41. SU-Board Schematic Diagrams



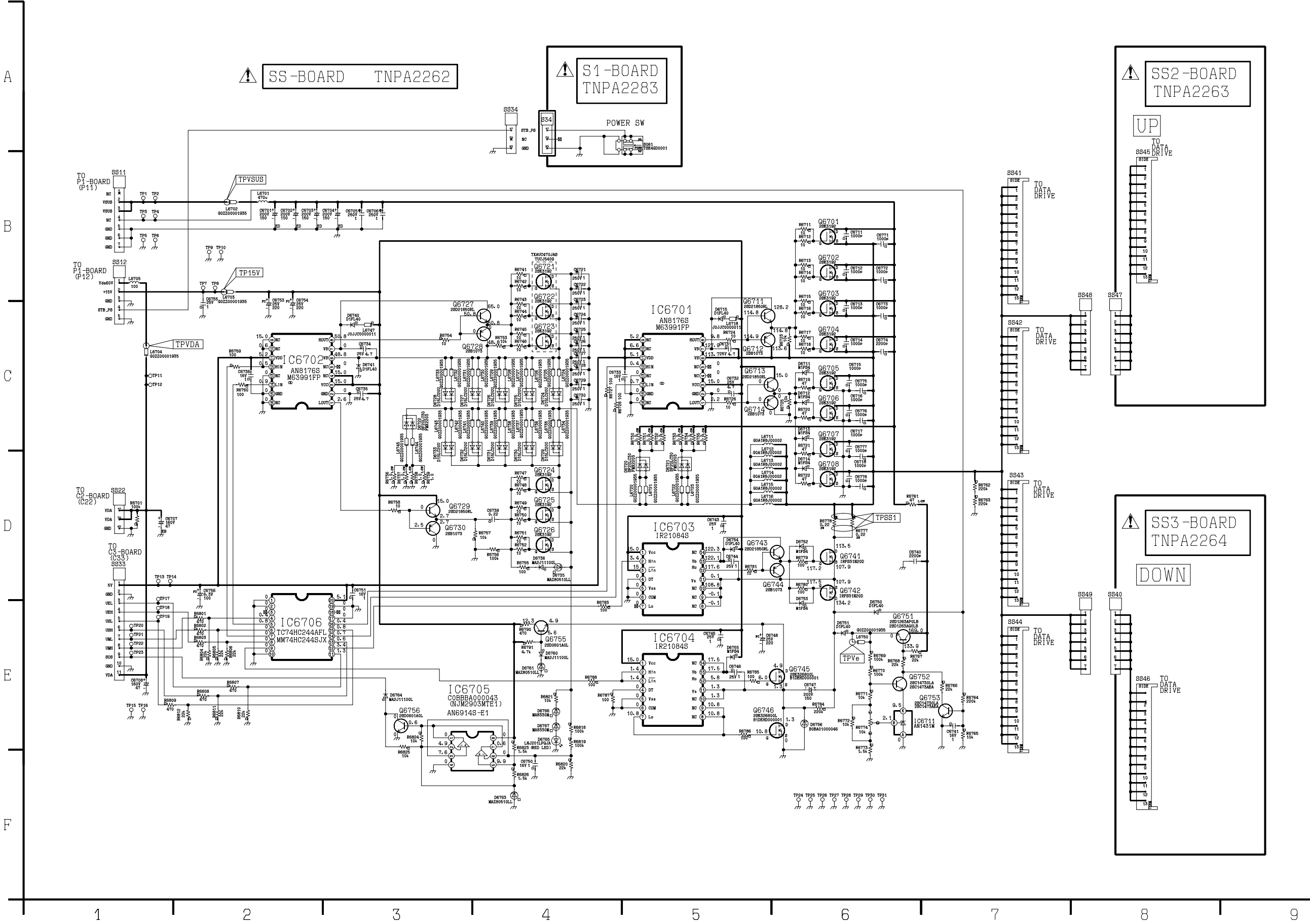
12.42. SD-Board Schematic Diagrams



12.43. SS-Board Block Diagrams



12.44. SS, SS2, SS3 and S1-Board Schematic Diagrams



16 Specifications

Power Source:	AC220-240V 50/60Hz
Power Consumption:	295W 1.8W (stand-by condition) 1.6W (Power off condition)
Plasma Display panel:	Drive method AC type 42-inch, 16:9 aspect ratio
Contrast Ratio	3000:1
Brightness Capability	(Panel only) 780 cd / m ² (As a set) 400 cd / m ²
Screen size:	920 mm (W)×518 mm (H)×1056 mm (diagonal) No. of pixels 408,960 (852 (W)×480 (H)) [2,556×480 dots]
Operating condition:	
Temperature	34 °F - 104 °F (0 °C - 40 °C)
Humidity	20 % - 80 %
Applicable signals:	
Color System	NTSC, PAL, PAL60, SECAM, Modified NTSC
Scanning format	525i (480i), 625i (575i), 525p (480p), 625 (575p), 750p (720p), 1125/60i, 50i, 24p, 24SF (1080/60i, 50i, 24p, 24SF) SMPTE 274M
PC signals	VGA display VGA SVGA, SXGA, UXGA (compressed) Horizontal scanning frequency 15.5 - 110kHz Vertical scanning frequency 48 - 120Hz
Connection terminals:	
AV	
Video in	1.0 Vp-p (75-ohm)
S-VIDEO IN (MINI DIN 4PIN)	Y: 1 Vp-p (75-ohm), C: 0.286 Vp-p (75-ohm)
AUDIO IN (RCA PIN JACK × 2)	0.5 Vrms (high impedance)
COMPONENT/RGB	
Y/G	1.0 Vp-p/composite (75-ohm) 0.7 Vp-p/non-composite (75-ohm)
P _B /B	0.7 Vp-p (75-ohm)
P _R /R	0.7 Vp-p (75-ohm)
HD	1.0 - 5.0 Vp-p (high impedance)
VD	1.0 - 5.0 Vp-p (high impedance)
AUDIO IN (RCA PIN JACK×2)	0.5 Vrms (high impedance)
PC	
(HIGH-DENSITY D-SUB15PIN)	R,G,B/0.7 Vp-p (75-ohm) HD, VD/1.0 - 5.0 Vp-p (high impedance)
AUDIO IN (M3.5 JACK)	0.5Vrms (high impedance)
SERIAL	
EXTERNAL CONTROL TERMINAL (D-SUB9PIN)	RS-232C COMPATIBLE
SPEAKERS (External speakers)	6Ω 8W×2 (10% THD)
Dimensions (W×H×D):	40.2" (1020 mm)24" (610mm) 3.5" (89 mm)
Weight (Mass)	approx. 65.0 lbs (29.0 kg) (main unit only) approx. 74.3 lbs (33.2kg) (with speakers)

TOSHIBA CORPORATION

1-1, SHIBAURA 1-CHOME, MINATO-KU, TOKYO 105-8001, JAPAN